Dimplex®

A world of expertise

CI/SFB (56)

The Heatbook

Tried. Tested. Trusted.

The one solution for all your heating requirements.

Domestic Heating | Commercial Heating | Solar PV | Solar Thermal | Heat Pumps | Flame Effect Fires | Portable Heating

Contents

Introduction

Why the future is electric	4
About Dimplex	6
Approvals and standards	8
Heating design service	9
A guide to heating	10

Whole House Heating

The Quantum heater range NEW	12
Introduction to panel heaters	18
The Monterey panel heater range	20
The Girona panel heater range	22
The Saletto panel heater range NEW	24
The EPX panel heater range	26
The RPX panel heater range	28
The PLX panel heater range	30
Panel heater controls	32
Introduction to storage heating	34
The DuoHeat radiator range	36
The XLN and XLSN storage heater ranges	38
The CXLSN combi storage heater range	40
The XL6N and XLS6N mini storage heater range	42
Storage heater accessories	43

Kitchen and Bathroom Heating

The TDTR towel rail range	44
The BR towel radiator range	46
The TR and S towel rail ranges	48
The Apollo bathroom heater	50
Towel rail controls	51
The FX and FXIPX4 fan heater ranges	52
The DTW under-tile mat range	54
The BFH base unit heater range	56
The BUH base unit heater range	58

General Purpose Heaters

The Coldwatcher range	59
The Frostwatcher	59
The T range tubular heaters	60
The SCH5	60
The Contrast convecter range	61
The Latitude® convecter range	61
Portable fan heaters	62
The Cadiz eco oil free radiator range	63
The OFRC eco oil free heater range	64
OFC and OFX/MK1 oil filled radiator ranges	65
The DXLWP slimline range	66
The IRX infra-red range	66

Contents

Fires and Surrounds

67 Optiflame® electric fires and suites
68 Fuel effect fires
69 The Studio range

Commercial and Industrial

70 The AC over door heater range
72 The CAB air curtain range
73 The DAB air curtain range
74 The IAB industrial air curtain range NEW MODELS
75 The ARC architectural air curtain range NEW MODELS
76 The CFH fan heater range
78 The CF fan heater range
79 The PFH fan heater range
80 The OPH patio heater range
81 The QXD Quartzray® range
82 The CXD ceramic heater range
83 Radiant heaters positioning, coverage and throw
84 The WFC and WFE fan heater ranges
86 The VFMi storage heater range
87 The HAW air warmer range
88 The Electricaire ducted warm air system range

Water Heating

90 EC-Eau unvented solar cylinder overview

Renewable Solutions

92 Low carbon solutions overview
94 PV overview

96 Optiflame® electric fire range overview
97 Opti-myst® electric fire range overview
98 Domestic heating selection guide
99 Commercial heating selection guide
100 Heater sizing tables
102 Heating design request form
103 Index – alpha listing

Why the future is electric

People in the UK are changing how they heat their homes. With the rising costs of energy, three things come into question:

- Which fuel do we use?
- How do we best use this fuel?
- How do we maximise our use of the heat produced?

The future of domestic space heating is electric, a fact which is fast becoming apparent from government documentation outlining the future plans of the building and environmental legislation that governs the direction in which domestic heating will develop.

Energy costs

The rising cost of energy is forcing homeowners, suppliers and the government to act to find ways of reducing our use of fuel. 36% of the UK's energy is used to heat the space and hot water in our buildings, so it is no surprise that there has been a concentrated effort to reduce our exposure to the kind of volatile fossil fuel prices which led to an average price rise of nearly 10% in 2011, driven primarily by the wholesale gas prices on global markets.

Legislation

The UK is committed to reducing its greenhouse gas emissions by at least 80% by 2050, relative to 1990 levels. This means that we need to secure lower carbon energy supplies today. As electricity moves to low carbon sources of generation, with significant drops in emissions targets expected by 2030, electricity will become a universal and versatile source of low carbon energy.

"Technologies that use electricity to generate heat are well placed to become major low carbon heating technologies in the coming decades."
DECC – Future of Heating, March 2011.

Electricity is the obvious choice for our future heating needs because it has many benefits both at national level and local level as it:

- Can be produced in the UK, allowing continuity of supply at a steady price
- Is increasingly being produced from renewable sources, neutralising its carbon intensity

And electric heating:

- Is 100% efficient at the point of use – every unit that you pay for becomes heat
- Can be controlled with a degree of accuracy not achievable with other systems
- Can be quickly and easily installed as there is no pipework to consider, making it ideal for both refurbishment and new build
- Can operate as standalone heaters or as a complete system subject to requirement and budget, but with the added benefit of being able to add to the system at any time – making it perfect for extensions
- Has low lifetime costs as it requires very little maintenance and on average an electric heating system will last 50% longer than a gas system
- Is not limited by planning issues associated with flue requirements in new build
- Offers very low safety risk as it doesn't burn fossil fuel

Electric heating has many benefits

The heating market in the UK is changing faster than ever before. Fuel prices, legislation and technological developments are changing the way that our properties are heated, and as the world's largest manufacturer of electric heating products, Dimplex has the capabilities and knowledge to remain at the forefront of these developments.

The future is electric; we are electric.

Electricity will become a universal and versatile source of low carbon energy

About Dimplex

Wherever you go across the country, you'll find Dimplex heating and hot water solutions. From flats and houses, to offices, shops and hotels – in its field, Dimplex leads the world. With a heritage of more than 60 years and a product offering of more than 400 products, our growth can be attributed to a public who want affordable heating solutions that are efficient, reliable and durable, as well as attractively designed. This combined with an unmatched reputation for quality, reliability, unrivalled experience and innovation is why we remain the brand leader in the electric space and water heating world.

A critical aspect of our success is built upon a policy of continuous investment in every area of the business – from product development right through to customer service.

No one else in the industry invests more in developing products that constantly set new standards, with a central design facility and research teams at factories in the UK and Europe. Our investment in people, training and resources is reflected in the quality of our products and the standard of our pre and post sales service. As part of our commitment to product quality, we also apply stringent controls to every part of our manufacturing process and are ISO 9002 approved.

As members of key industry associations including ECA, EDA, BEAMA and HEVAC and with many BEAB approved products, Dimplex is unrivalled in quality and safety expertise across its wide range of products.

Reassuringly, a member of all relevant industry associations

With Dimplex, trust is built-in

Dimplex – tried and trusted by installers, specifiers and end users alike:

- The world's largest electric heating appliance manufacturer
- A proud reputation for continued investment in quality and innovation
- Backed by an award winning customer services team
- Member of ECA, EDA, BEAMA and HEVAC
- Free heating design service
- 60 years of continued innovation
- Over 45 million heaters sold via the trade in the UK alone

Today, as the market leader in energy efficient heating solutions, we continue to use our considerable experience and expertise as a springboard for new ideas, modern design, and ongoing innovation and reliability.

Dimplex website

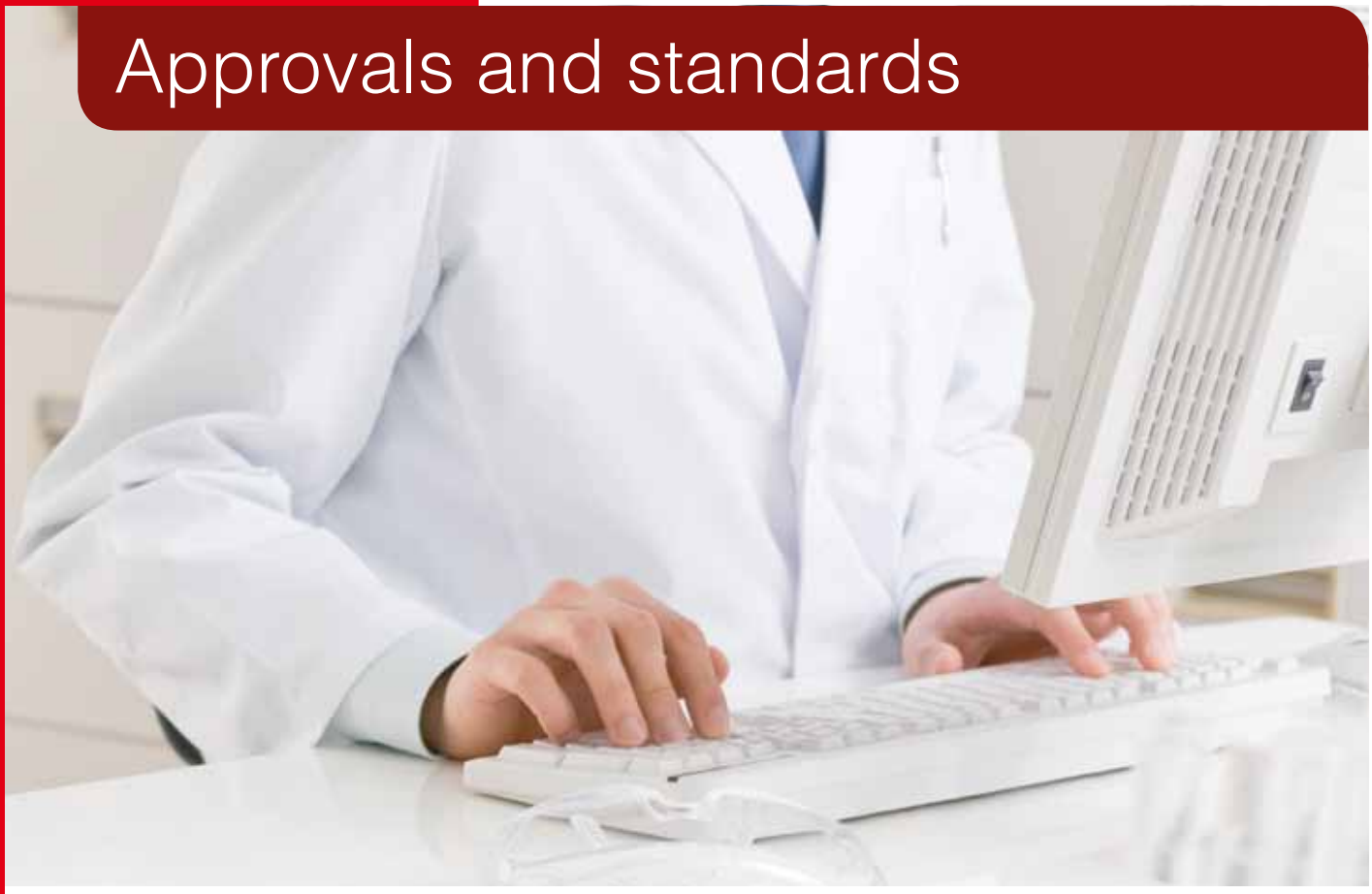
As well as the very latest product details, our website is packed full of information to help find the right product solution.

Key features include:

- **Help me choose selector**
  If you don't know which heater to choose, answer a few simple questions and get a list of our most suitable products
- **On-line calculator**
  Ideal if you need to know how much heat you need for a room or even a property
- **How to use videos and operating instructions**
  Designed to help you get the best from your Dimplex heaters
- **Stockist information**
  Just type in your postcode and find your nearest contractors, retailers or distributors and with a handy reference map to help you locate them quickly and easily

Please visit www.dimplex.co.uk/support

Approvals and standards



There is a range of approvals and standards that can be met by electrical heating products. These range from legally required minimum standards through to high-end approvals that demonstrate that products are tested against the highest safety standards.

CE

Many products in the EU are covered by a directive which states that the manufacturer must declare their product meets the minimum safety, health and environmental legislation required of it by European law. This is denoted by the CE mark on the product.

BEAB Approved

The BEAB Approved Mark for Intertek is a European Safety Mark used by leading electrical manufacturers to support CE marking and to demonstrate conformity with the Low Voltage Directive (LVD). Importantly however a BEAB Approved Mark on a product demonstrates that Intertek (an independent third party) has verified its safety.

Recognised across the UK and Europe, the BEAB Approved Mark demonstrates the safety pedigree of a product. It shows commitment to best practice, commitment to producing quality goods and most importantly commitment to customer safety. This is the highest safety standard achievable in the UK market. The mark indicates that the product has been manufactured in an inspected factory, using accepted methods, that the products have been tested and assessed by Intertek, and that the products bearing the BEAB approved mark are also randomly checked by Intertek on an annual basis.

The use of this mark on our products, packaging and literature indicate Dimplex products meet this standard.

Heating design service

In addition to our award winning customer services, Dimplex has a dedicated heating design team. With many years' experience in the electric heating industry, they provide an invaluable support to specifiers, architects, housebuilders, contractors and a wide range of other construction professionals.

Taking into account information on room dimensions, glazed area, and the level of heating in adjacent areas, the team carries out heat loss calculations, to work out the property's heat load to ensure each project achieves the required performance levels. All designs are bespoke to individual buildings and there is a handy summary list at the end to help with budgeting.

Part L and the Code for Sustainable Homes

With Part L of the Building Regulations and the Code for Sustainable Homes both driving the reduction of carbon emissions in buildings, the design and specification of the building fabric will have to be improved, whatever the fuel. So whether you are planning private new build or social housing, it's good to know that compliance with Building Regulations Part L can be straightforward using the latest Dimplex heating systems, and that the standard required for Code for Sustainable Homes Level 4 compliance is achievable using electric heating systems.

As more and more of our electricity is generated using low carbon sources, and with the acknowledgement from DECC that electric heating plays a fundamental part in the objective of creating a low carbon world, gaining compliance with electric heating systems will get easier over time.

Contact our heating design team for further details on how you can gain compliance for your scheme.

Building Regulations/Part L Compliance

In addition to designing schemes, the team also provides advice over the phone on complying with relevant building regulations, and over the years has helped many customers find a solution to their regulation nightmares.

The heating design service is split into different levels to meet customer deadlines and reflect the complexity of the scheme:

- Single room or quick reference guide
  Available on page 100/101 or at www.dimplex.co.uk/heatdesign
- Please also see our domestic and commercial guides on pages 98/99 for which product is most suitable for different applications
- Single property form
  Available on page 102 or at www.dimplex.co.uk/heatdesign
  We offer a 7 day turnaround on this service
- Multiple properties
  Because of their complexity, the following information is required:
- Plan and elevation drawings (scale 1:50 or 1:100)
- Construction U values
- Type of scheme i.e. domestic, commercial or industrial
- Internal and external design temperatures required
- Details of any special requirements or unusual aspects to the building

There is up to a 14 working day turnaround on this service and designs are supplied FREE of charge, although we do reserve the right to charge for the scheme if Dimplex products are not subsequently installed.

scan for more info
dimplex.co.uk/heatdesign

A guide to heating

What is heat? The human body as a walking heat machine

Ever felt 'under the weather'? It's a fact that weather has short and long term effects on our bodies. We're very good at losing heat but not quite so efficient at retaining it.

We all react differently to weather and temperature variations, and very young, fragile or older people will be more susceptible than most, with women generally having a higher level of sensitivity than men.

Cold weather and winter affects the death rate – during the winter, there are typically 25,000 more deaths in the UK than at other times in the year, directly attributed to low temperatures.

The most serious risk, particularly for older people and vulnerable groups, is hypothermia, that can just as easily happen in a poorly heated home as it can to polar explorers. Even mildly cool indoor temperatures of 15.5°C can trigger hypothermia in older people which manifests as confusion, slurred speech, loss of complex motor skills and if the body core temperature drops below 34°C, the effects become life threatening.

Many older people and/or those in fuel poverty may also be anxious about using heating to keep themselves warm during the winter, which is why it's important to ensure entitlements such as winter fuel payments are claimed, insulation measures have been adopted, and that the heating system is as controllable and energy efficient as possible.

What is the difference between direct acting and storage/off-peak heating?

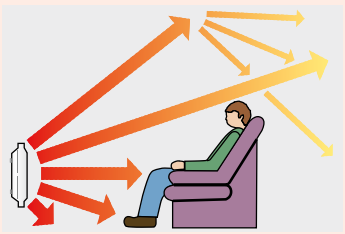
There are two types of electric heating appliances. A direct acting appliance provides almost 'instant' heat, rapidly heating up and cooling down. Panel heaters, convector heaters, fan heaters and radiant heaters all fall into this category – providing heat only for the period during which they are energised.

Storage heaters are designed to take advantage of the off-peak electricity tariffs under which electricity is supplied at a lower price for a selected number of hours in a 24 hour period, thereby charging the product with heat which is stored for slow release over a far longer period.

How do different types of heating affect us?

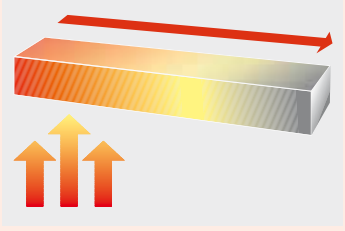
While we all produce our own heat of about 120W per hour (equivalent to two 60W light bulbs), we need some extra help! After 60 our ability to produce heat declines, and this is why older people are more vulnerable to cold.

Heat is transmitted in three ways: conduction, convection and radiation. The optimum mix for human comfort is a blend of 80% convected and 20% radiant from a heating appliance.



Radiant heat generally gives the greatest feeling of comfort. It's like the warmth from the sun or the warmth when you hold your hands in front of a fire or radiator in the winter. The air itself is not heated directly and the rays of energy travel in straight lines, only converting to heat when the rays strike and are absorbed by the receiving body. If you cannot see the radiant heat source, you cannot feel it, but it needs no medium to carry it.

Convected heat is carried around the room in the form of heated air. When air is heated it expands, becoming dense. The heavier, cooler air around the heater, under the force of gravity, displaces the lighter air upwards. As the heated air rises, it diffuses some of its heat, thus warming up air which is at some distance from the heat source. The hotter the initial heat source, the further the convection current will flow before diffusing into the surrounding air.



Conducted heat travels through solid objects – heat a bar of iron at one end and gradually the other end will become hot. Even using the best materials for conduction, it is still a relatively slow method of transmitting heat and plays only a small part in the practical provision of warmth.

Running costs explained

It is very difficult to be precise on actual running costs for an individual room/property as this will vary according to many factors such as lifestyle, weather conditions, correct sizing of heater, appliance selected and room temperature required, so the information given below should be taken as a rough guide only.

DIRECT ACTING APPLIANCES

One of the common misconceptions about heating is that different types of heaters are more expensive to run than other types. This is simply not accurate. All direct acting heaters are 100% efficient at point of use and simply put, on a given tariff 1kWh of energy used will cost the same whether it's a hairdryer, kettle, fan heater, panel heater or oil filled radiator using it.

1kWh = a 1kW appliance running for one hour, so the input of the appliance x length of running time (e.g. 1 hour) x kWh cost = hourly running cost.

However, the key to improving efficiency is to use products that have thermostatic control as these will ensure that the room is not overheated, thereby saving energy.

OFF-PEAK APPLIANCES

Off-peak or storage heaters take in and store electricity at certain times (usually at night) when energy is cheaper.

If the storage heater takes a full charge and has a rating of 18kWh, and is charged for 7 hours, then it will cost 18 x 7 x cost of unit of off-peak electricity, per day.

Which heater is best for my home/room?

If you are looking to heat a room on a permanent basis it would be best to use an installed heater such as a panel or storage heater.

Portable electric heaters are especially useful for heating a room when perhaps you're involved in a sedentary activity such as office working from home, doing hobbies such as reading or painting or simply watching TV.

Fan heaters – fantastic for an instant warm up, they very quickly make a room feel warm and comfortable. There are models from 1kW up to a powerful 3kW and oscillating models will help to provide an effective distribution of warmed air.

Convectors – these are slimline and lightweight and easy to transport from room to room and just as easy to store away in the loft or a cupboard when they are not in use.

Oil filled/oil free radiators – provide a mix of radiant and convected heat. They are ideal for older people, keeping baby's rooms warm and for people working in a small home office.

Cut your costs: How to save energy

- Look for heaters with energy saving features such as thermostats and timers
- If your heater does not have a timer, plug it into a timer control
- Put the heater on half heat setting if there is one, on milder days
- Use portable heating just to take the edge off a cooler room rather than turn on a whole heating system
- Turning your thermostat down by just 1°C saves a lot over a season
- Set the temperature on your individual heaters to suit the room and its use, and use timers if you can. For example, in a spare room, just leave the heater on a low setting
- Use a shower (not a power shower) rather than a bath, saving you time, money and water. And check that your cylinder hot water isn't set any higher than 60°C/140°F
- Don't leave appliances on standby or leave phones or other electricals on charge unnecessarily
- Turn off the lights when you leave a room and make sure you now have low energy light bulbs /LEDs
- Cuppas cost cash – reduce your spend by boiling only what you need rather than a full kettle every time
- Make sure you insulate your hot water tank
- Keep a lid on it – use your saucepan lids to help reduce moisture and condensation too
- Insulate: Half a homes heat loss is through walls and loft
- Get the best energy deal – visit energy price comparison sites to see how you might save on your bills

A new concept in electric heating

QUANTUM™ energy system

Quantum is a revolutionary system that combines state-of-the-art electric heating with an economical demand response management tool and is the culmination of three years' research and development.

Quantum is designed to use low cost, low carbon energy from renewable sources, such as solar photovoltaics and wind turbines. It has the ability to store this energy during periods of low demand, turning it into cheap, efficient heat only when it's needed. Importantly it will operate on any off-peak tariff combined with a 24 hour supply.

Quantum uses up to 20% less energy than comparable static storage heaters

Great advances in insulation technology and controllability ensures the Quantum heater is up to 25% cheaper to run and uses up to 20% less energy than other comparable electric heaters.†

The Quantum heater uses insulation material which comes close to the lowest theoretically possible thermal conductivity – an insulation with a thermal conductivity even lower than that of still air.

Better still, Quantum uses off-peak tariffs whenever possible to minimise costs. So users can enjoy all the benefits of electric heating, with running costs unattainable by other direct acting electric systems. And to top it all, the Quantum heater is easy to install and virtually maintenance free.

scan for more info
dimplex.co.uk/qm

†Compared to a manually controlled static storage heater.

The Quantum Heating System comprises three main components:

1. The Quantum Room Heater

- Can be bought and used individually or as part of a system
- Uses off-peak tariffs for low running costs – on a room-by-room basis it is expected that 97% of the heating requirement will be met by off-peak energy
- Automatically adjusts to the user's needs through its dynamic storage capacity
- Precisely matches the user's chosen heating profile
- Features an easy-to-use, electronic user interface with LCD display complete with:
  – room temperature setting
  – seven-day programmer
  – installer settings
- Designed to operate on any off-peak tariff
- Fan-assisted output for extremely rapid heat-up time
- Soft-start, ultra quiet fan for minimum intrusion
- Boost element ensures heat is always available even with unexpected demand
- Attractive, state-of-the-art design
- Compact design (no deeper than a double wet radiator) with flexible mounting options and adjustable feet positions
- Covers previous 'fixing marks' of most comparably sized traditional storage heaters
- Optional communications link for demand side management to help stabilise the electricity supply network

2. The Quantum Cylinder*

Class-leading and intuitive, smart energy storage water vessel.

- Can be bought and used individually or as part of a system
- Provides mains pressure hot water for fast-filling baths and powerful showers
- Manufactured from stainless steel with a 25-year warranty
- Choice of eight sizes, ranging from 75 to 300 litres – both vented and unvented
- Advanced controls with feedback on hot water availability – so no surprise cold showers!
- Hard-wearing, black insulation outer shell made from recycled materials
- Delivers a long-life, low-maintenance, economical hot water supply
- Two-way communications allowing demand side management

3. The Quantum Hub*

Think of the Quantum Hub as an optional system manager.

- Facilitates the two-way communication between the Quantum appliances and the energy supply company
- Completely automated and preset – no need for user input
- Uses future-proofed technology, ensuring it can support upcoming changes in energy supply
- Compact and may be mounted discreetly anywhere within the property
- Enables the Quantum heating and hot water units to potentially be connected to one permanently live electrical circuit – and still benefit from off-peak rate costs
- Requires a transceiver to be fitted to each Quantum appliance

*Available Spring 2013

Exceptional control

The Quantum Room Heater will:

- Intelligently monitor weather and usage patterns, learning from and adapting to them, delivering heat accordingly
- Work seamlessly with the grid, using off-peak tariffs whenever possible to minimise user costs and maximise efficiency
- Closely follow target room temperature, intuitively adjusting settings to maintain this to within a fraction of a degree C
- Respond quickly to changing climate and room temperature conditions, and alter configurations automatically

All of this adds up to highly controllable heating, with exceptionally low running costs.

The heater intuitively and precisely responds to user lifestyle and climate conditions, delivering just the right amount of heat. Of course, if an individual wants to adjust heat levels manually, he or she can – using the built-in, state-of-the-art controls.

End users can:

- Manually adjust heat levels via the easy-to-use, built-in electronic interface with LCD display, advance/menu/back buttons and rotary 'click' selector
- Choose and adjust preset programmes, such as 'Home all day', then sit back and relax as the Quantum Heating System takes control

7 Day programmer with 3 preset (adjustable) timer profiles, display adjustment. Holiday mode giving frost protection, landlord setting, child lock setting and many more features.

Rotary knob adjusts target temperature and enables menu scrolling and selection.

Target temperature display is colour coded to assist visually impaired. Heater will maintain selected temperature to within +/- 0.3°C.

Easy to use controls

scan for more info
dimplex.co.uk/qm

Benefits for all

Harnessing low-carbon, low-cost electricity, the Quantum heater delivers the future of heating, today.

Whether you're specifying, installing, living or working with Quantum, you'll quickly realise the benefits that this dynamic heating system has to offer.

Specifier Benefits

For private developers, social housing providers and private landlords, the Quantum Room Heater:

- Features attractive, state-of-the-art design – superior to other storage and wet systems
- Uses low-cost, low-carbon, future-proofed technology
- Is easy to specify within SAP
- Is available in a range of heater sizes, enabling greater flexibility in project specification
- Is virtually maintenance free
- Is compact with adjustable feet positions
- Covers previous 'fixing marks' of all most comparably sized traditional storage heaters
- Has easy to use controls to reduce user confusion

End User Benefits

- Attractive, state-of-the-art design – superior to other storage and wet systems
- Completely automatic once set up
- Economical to run, helping to alleviate the increasing problem of fuel poverty
- Offers improved comfort levels, heating only when required
- Accurate room temperature control to +/-0.3 °C
- Responsive to changes in external temperature
- Uses a future-proofed, nationally-supplied fuel source
- Delivers high reliability and very low maintenance

Installer Benefits

- Simple to install – with separate instructions for both installer and user
- Includes an electronic controller pre-loaded with time/date and commissioning programme
- Reversible cable entry points and adjustable feet to ensure the chassis covers previous 'fixing marks' of most comparably sized storage heaters
- Easy to use controls to reduce user confusion

Energy Supplier Benefits

- Features multiple options for communication
- Facilitates the preservation of the off-peak tariff market
- Offers the potential for new tariff creation
- Provides a tool for economic Demand Response Management
- Delivers low-cost, low-carbon and flexible energy storage: utilities can decide how much energy to store and when to store it
- Improves use of wind generation, helping to decarbonise the grid
- Allows for better balancing of supply and demand
- Increases system reliability and security
- Reduces the need for investment in networks
- Helps reduce the cost of standby generation

Quantum has running cost savings of up to 25% compared to a manually controlled static storage heater

Technical information

Colour/Finish
White.

Controls
Electronic user interface with LCD display offering room temperature setting, 7 day programmer, installer settings, 3 preset timer profiles, holiday setting and more.

Charge Controller
Fully automatic charge controller incorporates self learning algorithms to optimise daily energy storage, using multiple sensors to automatically adjust the charge taken based on recent energy use patterns and future programmed requirements.

Thermostat
Electronic – capable of maintaining a room temperature to +/- 0.3°C.

Safety devices
Electromechanical:

- Limit thermostat (self resetting)
- Cut-out (manual reset)
- Over-temperature thermostat for fan
- Over-temperature limit thermostat for fan

Fan
Low rev/low noise heat circulation fan with variable speed and soft start.

Storage core
High density bonded magnetite energy cells.

Thermal insulation
Front, rear top and ends – microporous silica. Base – calcium silicate slab.

Battery backup
3.3V coin cell battery to backup real time clock. Battery life > 5 years.

Supply
230-240V / 50Hz Off peak + 24 hour supply required.

Quantum room heater

Model	Height	Depth	Width	Installed weight
QM070	730mm	185mm	703mm	83kg
QM100	730mm	185mm	865mm	107kg
QM125	730mm	185mm	1069mm	135kg
QM150	730mm	185mm	1069mm	155kg

Model	Output rating	Input rating	Max. storage capacity	Boost element rating
QM070	700W	1560W	10.9kWh	630W
QM100	1000W	2200W	15.4kWh	880W
QM125	1250W	2760W	19.3kWh	1130W
QM150	1500W	3300W	23.1kWh	1300W

Energy Cell Packs – Packaged separately, required in the following quantities:

Model	QM070	QM100	QM125	QM150
Energy cell packs required	6	8	10	12

Quantum QM125 vs conventional static 24kWh storage heater

The test
A climate room was built to accurately replicate a room from typical UK housing stock. It has two external walls and the temperatures outside all walls, ceiling and floor are accurately controlled.

A daily temperature profile was set up outside to simulate an average heating day in a property based in Sheffield, England.

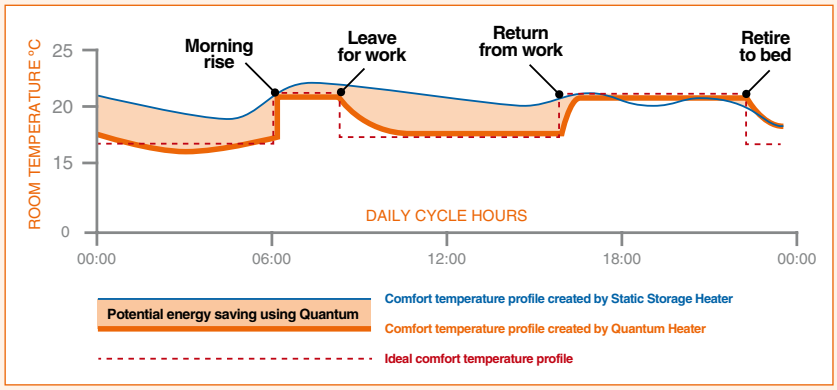
Minimum outside temperature +4 °C
Maximum outside temperature +11°C

The following heaters were tested under these conditions:

3.4kW (input) static storage heater with manual charge control supplemented with a direct acting heater.

2.8kW (input) Quantum heater (QM125).

The results



Average weekday profile
Conventional Storage Energy Use = 12.2 kWh + 1.3kWh direct acting heating = 13.6kWh (9 hours heating @ 21°C)
Quantum Energy Use = 10 kWh + 0.2kWh (fan) = 10.2kWh (9 hours heating @ 21°C)

scan for more info
dimplex.co.uk/qm

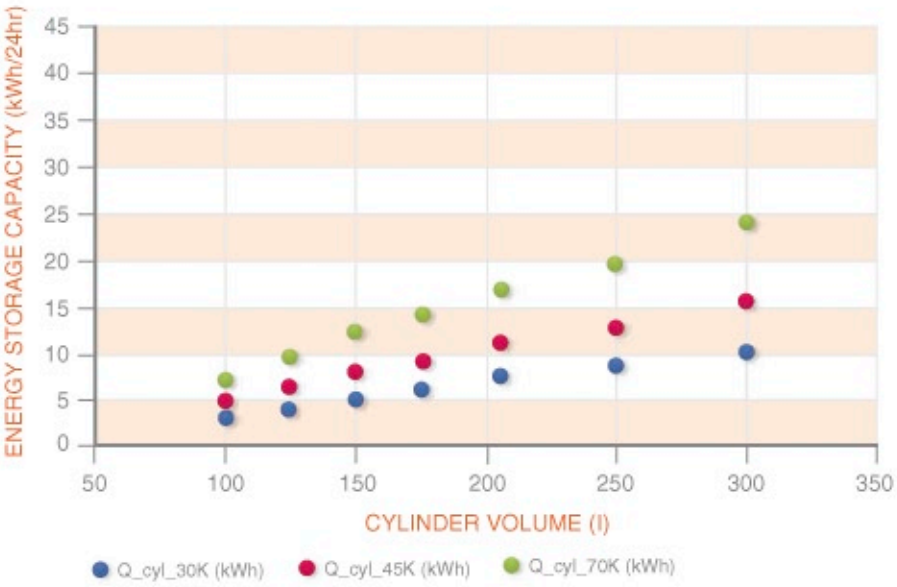
Technical information

Quantum water cylinder

Model	Volume	Height	Diameter	T&P Valve	Immersion 1	Immersion 2
QWCD 75	75l	645mm	580mm	495mm	208mm	–
QWCD 100	100l	795mm	580mm	570mm	208mm	–
QWCD 125	125l	945mm	580mm	720mm	208mm	570mm
QWCD 150	150l	1115mm	580mm	890mm	208mm	650mm
QWCD 175	175l	1265mm	580mm	1040mm	208mm	750mm
QWCD 210	210l	1490mm	580mm	1265mm	208mm	820mm
QWCD 250	250l	1765mm	580mm	1540mm	208mm	1265mm
QWCD 300	300l	2065mm	580mm	1840mm	208mm	1495mm

Energy storage capacity water cylinders

This graph illustrates the energy storage capacity of the Quantum Cylinder across a range of temperatures.



Colour/Finish

Black.

Type

- Vented and unvented systems
- Direct cylinders

Controls

- Highly intuitive ergonomically designed electronic control system
- Modern, easy-to-read display
- User adjustable cylinder water temperature to +/- 0.5°C
- 'Boost' immersion heater for rapid response short-term use
- Hot water volume availability display
- User can set normal water temp and boost water temperature
- Boost element automatically disengages upon reaching target temperature

Technical features

- Class-leading insulation levels
- Bi-directional communication to power utility of specific control and configuration parameters
- High level energy management system interacts with external (Wide Area Network) and local (Home Area Network)
- Communicates stored water volume and temperature
- Automatic sterilisation function
- Algorithm specifically calculates:
  - Hot water volume
  - How much more energy can be stored in the tank until the maximum set temperature is reached
  - Water and energy consumption over a defined period

Heat loss over 24 hours (ΔT 45k): Storage capacity @ 65°C water (ΔT 55k)

- 75l: 3.9kWh 0.65kWh
- 100l: 5.5kWh 0.75kWh
- 125l: 7.1kWh 0.95kWh
- 150l: 8.8kWh 1.1kWh
- 175l: 10.3kWh 1.22kWh
- 210l: 12.7kWh 1.4kWh
- 250l: 15.3kWh 1.55kWh
- 300l: 18.4kWh 1.96kWh

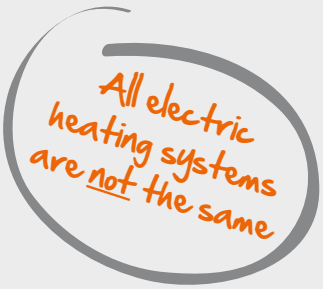
Introduction to panel heaters

The Dimplex range of panel convector heaters maximises operational ability by:

- Having low thermal inertia, thus heating up rapidly in response to immediate heating needs
- Having a gas filled or electronic thermostat, avoiding room temperature 'drift'
- Having a range of controls which allows the user to time their heating requirements in line with their occupancy patterns

The Dimplex range achieves this by using convection to heat a space up quickly, meaning that the room is warm for the period of time selected.

The room can then be accurately held at the temperature required for the duration of occupancy, creating a comfortable environment. Importantly, when the heater is switched off it reacts equally quickly.



How does a panel heater work?

Panel heaters are 'direct acting' products (please see pages 10 and 11 for an explanation of the different types of heat and their properties).

These heaters are slimline wall mounted and provide rapid heat whenever it is required by the user.

While the way in which panel heaters deliver their heat differs, the cost at the point of use does not.

There have been many spurious claims of 'efficiency' in the electric heating market. Here are the facts.

What is the efficiency difference between different types of direct acting heaters?

Efficiency is a widely misunderstood term when it comes to electric heating. The fact is that electric energy is converted to heat with 100% efficiency at the point of use. Therefore the actual efficiency of an electric resistance heater – any electric resistance heater – is 100%. If your heater uses 1kWh of electricity, 1kW of heat will be transferred into the room for one hour. This is dictated by one of the principal laws of physics, The Law of Conservation of Energy – "*Energy cannot be created or destroyed, but can only change from one form to another.*"

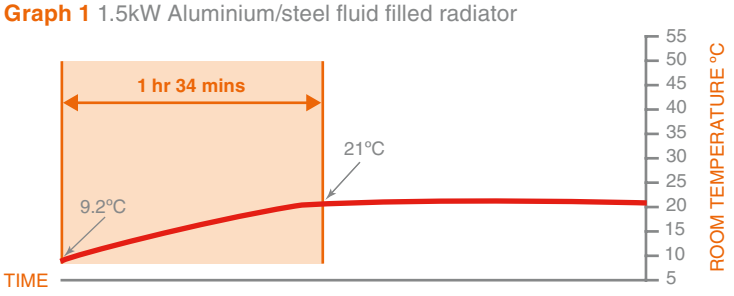
However while it is true that all electric resistance heaters are 100% efficient, they don't all operate in the same way.

For example an oil (or thermodynamic fluid) filled radiator has different performance characteristics to a panel convector heater.

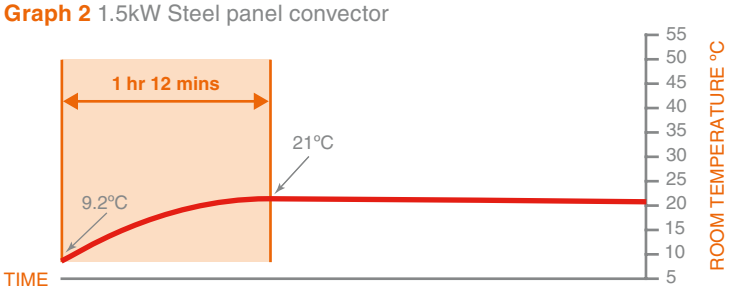
The fluid in the radiator will transfer the heat uniformly around the radiator giving a higher proportion of radiant as opposed to convected heat in comparison to a convector heater. This is particularly useful for certain applications (see our oil filled range on page 65 of this brochure), however the very small thermal storage capacity of a fluid filled radiator also results in slow release heat to the room during start up (see graph 1) and a slightly prolonged release of heat to the room after switching off. By comparison a radiator or panel convector heater with no fluid would release heat to the room more quickly during start up (see graph 2) and stop releasing heat more quickly at 'switch off'.

Time taken to raise room temperature from 9.2°C to 21°C

Graph 1 1.5kW Aluminium/steel fluid filled radiator



Graph 2 1.5kW Steel panel convector



Tested in a climatic chamber with a cooling load of 518W.

Is there a wider acknowledgement of any efficiency differences?

The European Commission Study of Local Room Heating products (DG Ener Lot 20) states:

"*Since the 'heat generation efficiency' is always 100%. It does not allow comparing the energy performance of electric room heaters.*"

The UK government's standard assessment procedure (SAP) for energy rating of dwellings (SAP 2012 Version 9.92 Dec 2011) also draws no distinction between panel, convector or radiant heaters, water or oil filled radiators, fan heaters or portable electric heaters – each has an efficiency of 100% and a responsiveness of 1.

This is demonstrated in the table below, which shows the SAP for energy ratings of dwellings (SAP 2012 Version 9.92 Dec 2011).

Electric (direct acting) room heaters	Efficiency %	Heating type	Responsiveness (R)	Code	Rd SAP
Panel, convector or radiant heaters	100	1	1.0	691	rd
Water or oil filled radiators	100	1	1.0	694	rd
Fan heaters	100	1	1.0	692	
Portable electric heaters	100	1	1.0	693	rd

The Monterey range

Model MFP150W

With a stylish finned metal design, the Monterey combines practical good looks with a highly accurate energy management system for maximum efficiency and comfort.

Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive +/- 0.3°C
- Range of optional plug-in electronic timer modules:
  – 24 hour digital timer
  – Single zone pilot wire programmer
  – Runback timer
- Compatible with Dimplex 4 zone, wall mounted pilot wire and mains borne signalling multi heater programmers
- Traditional design
- Virtually noiseless operation
- Frost protection setting
- Preset background temperature at 5°C below thermostat setting*
- Splashproof (IPX4) rated, for use in bathroom or wet areas
- Detachable hinged wall mounting frame for fast installation and easy cleaning
- Suitable for domestic and light commercial use

*When connected to a programming unit supporting setback feature.

Controls

1 Thermostat control

Electronic type, accurate to +/- 0.3°C. User selection of room temperature from 5°C (frost protection) to 30°C using slider control. Slider can be locked in position if required.

2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

3 Optional plug-in control modules

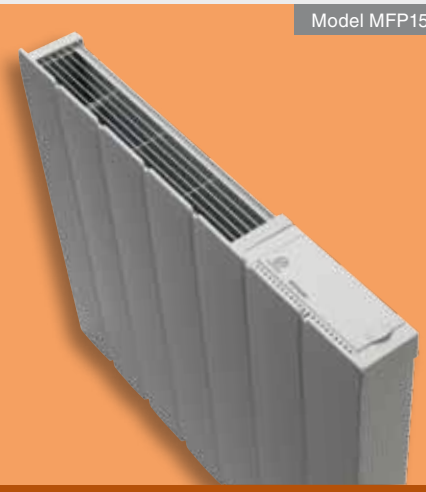
- 24 hour digital timer (RX24TI)
- Runback timer (RXRBTI)
- Single zone, pilot wire programmer (RXPW1)

Central control options†

- 4 zone pilot wire and mains borne signalling controllers (RXPW4 and RXMBS4)
- RX9913 receivers and RXMBSF filter required for mains borne control operation

†See pages 32-33 for more information on the control options.

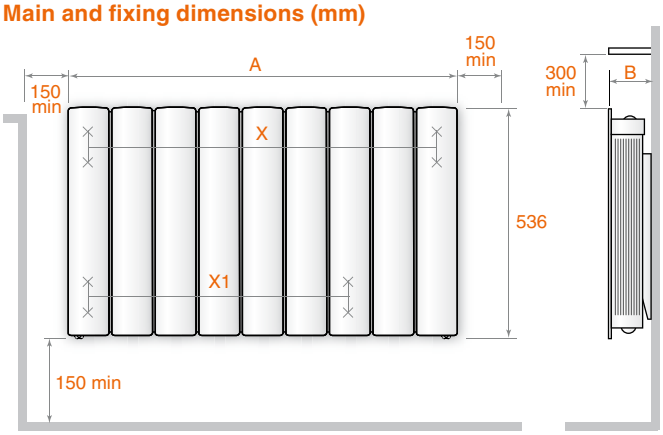
Model MFP150W



scan for more info
dimplex.co.uk/mfp

Technical information

Main and fixing dimensions (mm)



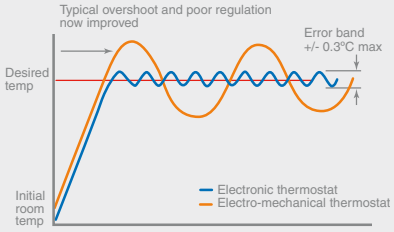
Model	Loading	Height	Width (A)	Depth (B)	X	X1	Weight
MFP050W	0.5kW	536mm	503mm	104mm	390mm	168.5mm	12kg
MFP075W	0.75kW	536mm	503mm	104mm	390mm	168.5mm	12kg
MFP100W	1.0kW	536mm	671mm	104mm	560mm	338.5mm	15kg
MFP150W	1.5kW	536mm	741mm	104mm	630mm	408.5mm	17.5kg
MFP200W	2.0kW	536mm	911mm	104mm	800mm	578.5mm	22kg

Model MFP150W

Colour/Finish
White.

Electronic control
Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than +/- 0.3°C, minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

Installation
Supplied with metal wall bracket.

IP rating
Splashproof IPX4.

Electrical connections
1.0m, 4 core cable (live, neutral, earth, pilot) supplied fitted to each heater.

Thermal cut-out
Auto reset type.

Element
Compact, finned, mineral filled sheathed type, providing virtually silent operation.

Construction
Durable epoxy-polyester powder coated steel casing, with upward facing grille. Temperature resistant PBT thermoplastic moulded parts.

The Girona range

Model GFP150B

Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive +/- 0.3°C
- Range of optional plug-in electronic timer modules:
  – 24 hour digital timer
  – Single zone pilot wire programmer
  – Runback timer
- Compatible with Dimplex 4 zone, wall mounted pilot wire and mains borne signalling multi heater programmers
- Elegant glass front finish in black or white
- Virtually noiseless operation
- Frost protection setting
- Preset background temperature at 5°C below thermostat setting*
- Splash proof (IPX4) rated, for use in bathroom or wet areas
- Detachable hinged wall mounting frame for fast installation and easy cleaning
- Suitable for domestic and light commercial use

*When connected to a programming unit supporting setback feature.

With an elegant black or white glass fronted façade, the Girona delivers rapid warm up with a highly accurate energy management system to maintain comfort levels to suit the user.

Controls

1 Thermostat control

Electronic type, accurate to +/- 0.3°C. User selection of room temperature from 5°C (frost protection) to 30°C using slider control. Slider can be locked in position if required.

2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

3 Optional plug-in control modules

- 24 hour digital timer (RX24TI)
- Runback timer (RXRBTI)
- Single zone, pilot wire programmer (RXPW1)

Central control options†

- 4 zone pilot wire and mains borne signalling controllers (RXPW4 and RXMBS4)
- RX9913 receivers and RXMBSF filter required for mains borne control operation

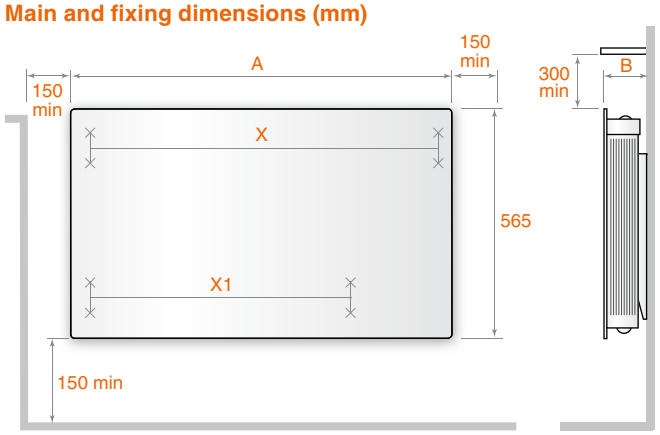
†See pages 32-33 for more information on the control options.

Model GFP150W

scan for more info
dimplex.co.uk/gfp

Technical information

Main and fixing dimensions (mm)



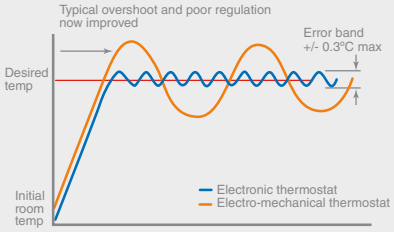
Model	Colour	Loading	Height	Width (A)	Depth (B)	X	X1	Weight
GFP050W	White	0.5kW	565mm	530mm	107mm	390mm	168.5mm	13kg
GFP075W	White	0.75kW	565mm	530mm	107mm	390mm	168.5mm	13kg
GFP100W	White	1.0kW	565mm	700mm	107mm	560mm	338.5mm	16.5kg
GFP150W	White	1.5kW	565mm	770mm	107mm	630mm	408.5mm	20kg
GFP200W	White	2.0kW	565mm	940mm	107mm	800mm	578.5mm	26kg
GFP050B	Black	0.5kW	565mm	530mm	107mm	390mm	168.5mm	13kg
GFP075B	Black	0.75kW	565mm	530mm	107mm	390mm	168.5mm	13kg
GFP100B	Black	1.0kW	565mm	700mm	107mm	560mm	338.5mm	16.5kg
GFP150B	Black	1.5kW	565mm	770mm	107mm	630mm	408.5mm	20kg
GFP200B	Black	2.0kW	565mm	940mm	107mm	800mm	578.5mm	26kg

Model GFP150B

Colour/Finish
Black or white.

Electronic control
Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than +/- 0.3°C, minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

Installation
Supplied with metal wall bracket.

IP rating
Splashproof IPX4.

Electrical connections
1.0m, 4 core cable (live, neutral, earth, pilot) supplied fitted to each heater.

Thermal cut-out
Auto reset type.

Element
Compact, finned, mineral filled sheathed type, providing virtually silent operation.

Construction
Durable epoxy-polyester powder coated steel casing, toughened safety glass with upward facing grille. Temperature resistant PBT thermoplastic moulded parts.

The Saletto range

Model Saletto LPP100

Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive +/- 0.3°C
- Range of optional plug-in electronic timer modules:
  – 24 hour digital timer
  – Single zone pilot wire programmer
  – Runback timer
- Compatible with Dimplex 4 zone, wall mounted pilot wire and mains borne signalling multi heater programmers
- Stylish, simple front panel design
- Virtually noiseless operation
- Preset background temperature at 5°C below thermostat setting*
- Frost protection setting
- Splashproof (IPX4) rated, for use in bathroom or wet areas
- Detachable wall mounting frame for fast installation and easy cleaning
- Suitable for domestic and light commercial use

*When connected to a programming unit supporting setback feature.

Simple, clean looks and a sleek, low-profile design make the Saletto range of heaters perfect for a range of different applications. With the same incredible control and performance of the well-known Monterey and Girona, this range is ideal where wall space is at a premium, such as a conservatory or small bedroom.

Controls

1 Thermostat control

Electronic type, accurate to +/- 0.3°C. User selection of room temperature from 5°C (frost protection) to 30°C using slider control. Slider can be locked in position if required.

2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

3 Optional plug-in control modules

- 24 hour digital timer (RX24TI)
- Runback timer (RXRBTI)
- Single zone, pilot wire programmer (RXPW1)

Central control options†

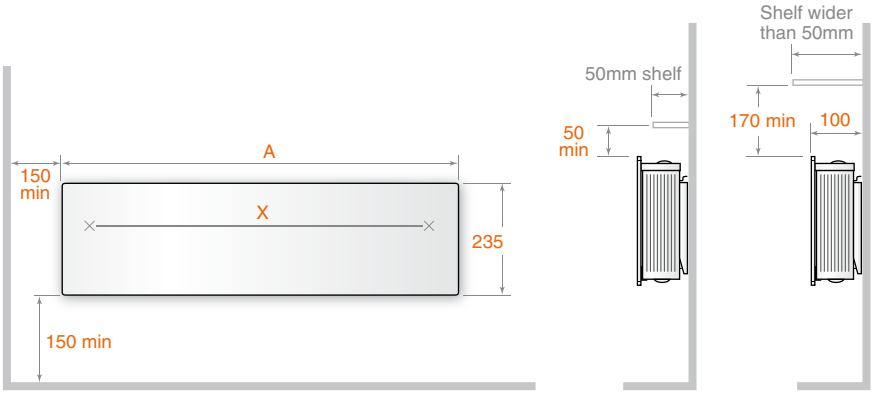
- 4 zone pilot wire and mains borne signalling controllers (RXPW4 and RXMBS4)
- RX9913 receivers and RXMBSF filter required for mains borne control operation

†See pages 32-33 for more information on the control options.

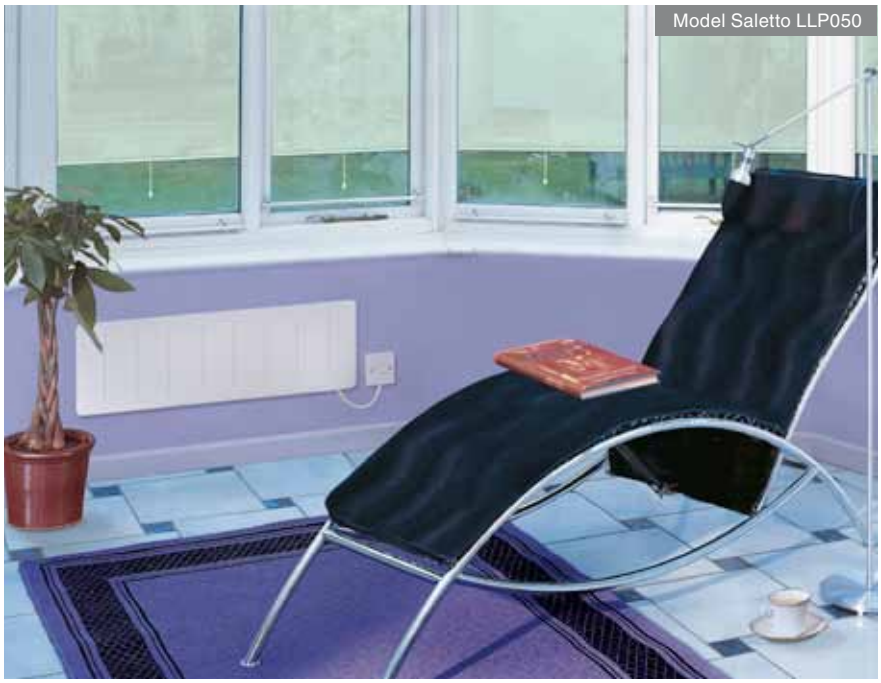
scan for more info
dimplex.co.uk/lpp

Technical information

Dimensions and clearances (mm)



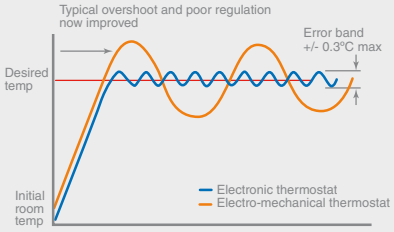
Model	Loading	Height	Width (A)	Depth	Wall mounting width (x)	Weight
LPP050	0.5kW	235mm	746mm	100mm	671mm	6.7kg
LPP075	0.75kW	235mm	746mm	100mm	671mm	6.7kg
LPP100	1kW	235mm	877mm	100mm	802mm	7.6kg
LPP150	1.5kW	235mm	1142mm	100mm	1067mm	9.9kg


Model Saletto LLP050

Colour/Finish
White.

Electronic control
Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than +/- 0.3°C, minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

Installation
Supplied with metal wall bracket.

IP rating
Splashproof IPX4.

Electrical connections
1.0m, 4 core cable (live, neutral, earth, pilot) supplied fitted to each heater.

Thermal cut-out
Auto reset type.

Element
Compact, finned, mineral filled sheathed type, providing virtually silent operation.

Construction
Durable epoxy-polyester powder coated steel casing, toughened safety glass with upward facing grille. Temperature resistant PBT thermoplastic moulded parts.

The EPX range

Model EPX1250

The EPX range of electronic panel heaters combine advanced performance and stylish looks to provide a superior, cost efficient panel heating solution.

Features

- High levels of control are built in with a sophisticated thermostat accurate to an impressive +/- 0.3°C
- Range of optional plug-in electronic timer modules:
  - 24 hour digital timer
  - Single zone pilot wire programmer
  - Runback timer
- Compatible with Dimplex 4 zone, wall mounted pilot wire and mains borne signalling multi heater programmers
- Aesthetics to complement DuoHeat radiators, with pure white finish
- Frost protection setting
- Preset background temperature at 5°C below thermostat setting*
- Splashproof (IPX4) rated, for use in bathrooms or wet areas
- Virtually noiseless operation
- Simple detachable hinged wall bracket for easy installation and cleaning
- Suitable for domestic or light commercial use

*When connected to a programming unit supporting setback feature.

Model EPX500

scan for more info
dimplex.co.uk/epx

Controls

1 Thermostat control

Electronic type, accurate to +/- 0.3°C. User selection of room temperature from 5°C (frost protection) to 30°C using slider control. Slider can be locked in position if required.

2 Power controls and indicators

Soft-touch on/off button, together with indicators showing when power to heater is on and when element is operating.

3 Optional plug-in control modules

- 24 hour digital timer (RX24TI)
- Runback timer (RXRBTI)
- Single zone, pilot wire programmer (RXPW1)

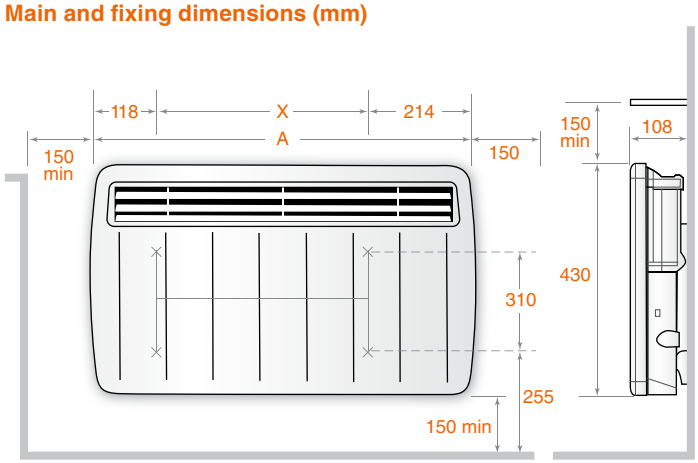
Central control options†

- 4 zone pilot wire and mains borne signalling controllers (RXPW4 and RXMBS4)
- RX9913 receivers and RXMBSF filter required for mains borne control operation

†See pages 32-33 for more information on the control options.

Technical information

Main and fixing dimensions (mm)



Model	Loading	Height	Width (A)	Depth	X	Weight
EPX500	0.5kW	430mm	450mm	108mm	117mm	5.2kg
EPX750	0.75kW	430mm	620mm	108mm	287mm	6.6kg
EPX1000	1kW	430mm	620mm	108mm	287mm	6.6kg
EPX1250	1.25kW	430mm	690mm	108mm	355mm	7.1kg
EPX1500	1.5kW	430mm	690mm	108mm	355mm	7.1kg
EPX2000	2kW	430mm	860mm	108mm	527mm	8.5kg

Model EPX1500

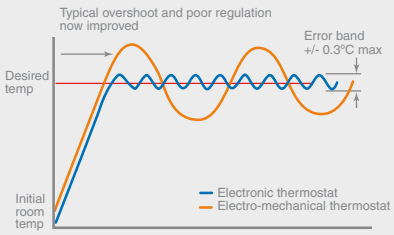
Colour/Finish

White.

Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than +/- 0.3°C, minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

Installation

Detachable wall mounting bracket.

IP rating

Splashproof IPX4.

Electrical connections

1.2m, 4 core cable (live, neutral, earth, pilot) supplied fitted to each heater.

Thermal cut-out

Auto reset type.

Element

Compact, finned, mineral filled sheathed type, providing virtually silent operation.

Construction

Durable epoxy-polyester powder coated steel casing, with forward facing grille. Temperature resistant PBT thermoplastic moulded parts.

The RPX range

Model RPX100N

Features

- Fitted with an electronic thermostat accurate to +/- 0.1°C to maintain a very stable room temperature
- User selectable comfort, background and frost protection settings
- Compatible with Dimplex single or 4 zone multi heater programmers
- Compact stylish casing with distinctive new curved grille
- Radiant heating reduces heat stratification
- Frost protection setting
- No visible glow
- Splashproof (IPX4 rated) for use in bathrooms and wet areas
- Controls cover which can be locked if necessary
- 'Apollo' bathroom model also available – see page 50 for details
- Detachable wall bracket for easy installation and cleaning
- Suitable for both domestic and commercial applications

Radiant heat is the kind of warmth we feel from the sun, so it's no surprise that many people prefer their heating system to provide a comfortable level of radiant heat to warm the body. The attractive, slimline RPX panel heaters are designed to do just that, giving a perfectly balanced source of heat.

Controls

1 Function control

Electronic type, accurate to +/- 0.1°C. User selection of 'comfort', 'background' (4°C below the thermostat setting) and 'frost protection' (5°C), off and programmed operation (if programmer is fitted). Neon indicator shows function selected.

2 Thermostat dial

The dial is marked * to 9. The * setting represents a room temperature of approximately 5°C and may be used for protection against frost. The other settings range up to a maximum room temperature of approximately 35°C. A neon indicator shows when the element is operating.

3 Optional plug-in control modules

- Single zone pilot wire programmer (RX9911)
- Single zone mains borne signalling programmer (RX9912)

Central control options†

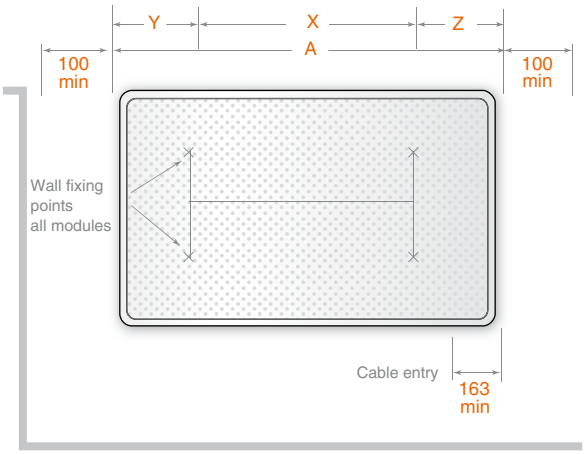
- 4 zone pilot wire and mains borne signalling controllers (RXPW4 and RXMBS4)
- RX9913 receivers and RXMBSF filter required for mains borne control operation

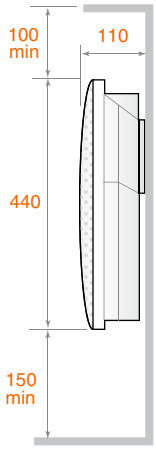
†See pages 32-33 for more information on the control options.

scan for more info
dimplex.co.uk/rpx

Technical information

Main and fixing dimensions (mm)





Model	Loading	Height	Width (A)	Depth	X	Y	Z	Weight
RPX075N	0.75kW	440mm	515mm	110mm	178	124.5	212.5	4.3kg
RPX100N	1.0kW	440mm	620mm	110mm	248	159.5	212.5	5.3kg
RPX150N	1.5kW	440mm	830mm	110mm	405	212.5	212.5	7.2kg
RPX200N	2.0kW	440mm	1040mm	110mm	535	252.5	252.5	9.0kg

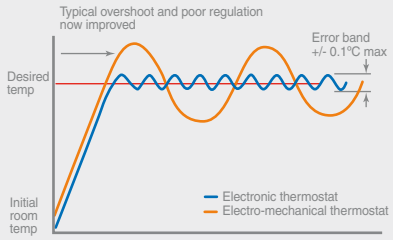
Colour/Finish

White.

Electronic control

Highly accurate electronic thermostats, providing superior comfort and operating efficiency.

As the room temperature reaches the desired set point, power to the elements is reduced, and the room temperature is closely monitored to an accuracy of less than +/- 0.1°C, minimising overshoot and temperature drift, resulting in better energy efficiency and user comfort.



Being electronic, control is virtually noiseless and incredibly reliable.

Installation

A detachable wall mounting frame allows quick wall fixing.

IP rating

Splashproof IPX4.

Electrical connections

2m, 4 core cable (live, neutral, earth and pilot wire) supplied fitted to each heater.

Elements

Two mineral filled sheathed electric elements are embedded in aluminium heating plates. Low element operating temperature of around 200°C reduces air drying effects and dust burning.

The heating plates have a unique design – the forward face is finished in matt black and has greater surface area to maximise radiant heat. The reverse side is in its natural smooth aluminium state to minimise heat loss to the wall.

The design provides an even temperature across the front panel, using the whole surface area available and maximises the throw of radiant heat into the room.

Construction

Durable polyester powder coated steel with mesh steel front grille.

The PLX range

Model PLX1250

Features

- High accuracy adjustable thermostat responds to very small changes in room temperature to reduce temperature drift*
- PLX TI models have programmable 24 hour timers
- PLX NC models with no built-in controls, for use with Dimplex wall mounted remote controls. See website for more details
- Choice of models with or without timers
- Splashproof (IPX4 rated) for use in bathrooms or wet areas
- Frost protection setting**
- Option of 7 day timer on 2kW and 3kW models
- Lockable dust cover protects controls
- Detachable hinged wall mounting frame for fast installation and easy cleaning
- Suitable for domestic or commercial use

*Excludes PLX NC models.

**Not applicable to PLX NC range.

The PLX range is a popular choice for specifiers, homeowners and contractors who demand stylish, space saving and efficient electric heating systems.

Controls

1 Thermostat control

Gas filled, accurate to +/- 1.5°C.

User selection of room temperature from 5°C (frost protection) to 35°C using rotary knob.

2 On/off switch

A single pole on/off switch controls the electricity supply. Neon indicator when the switch is on and power is supplied to elements.

3 Built in 24 hour/7 day programmers

TI models feature 24 hour time clock enabling daily heating needs to be programmed in advance. The clock may be set to switch on and off as often as required throughout the day. Override switch enables the timer to be by-passed without altering the preset programme. The selector control also has an off position.

TX models feature 7 day timers, allowing different weekday and weekend programmes.

4 Heat selection switch

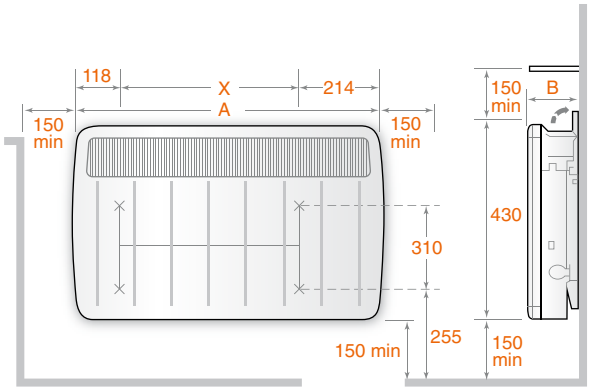
This allows the thermostat to operate on full or half load.

Model PLX750TI

scan for more info
dimplex.co.uk/plx

Technical information

Main and fixing dimensions (mm)



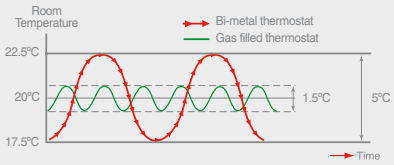
Model	Loading	Height	Width (A)	Depth (B)	X	Weight
Thermostat only models						
PLX500	0.5kW	430mm	450mm	108mm	117mm	4.8kg
PLX750	0.75kW	430mm	620mm	108mm	287mm	6.2kg
PLX1000	1.0kW	430mm	620mm	108mm	287mm	6.2kg
PLX 1250	1.25kW	430mm	690mm	108mm	355mm	6.6kg
PLX1500	1.5kW	430mm	690mm	108mm	355mm	6.6kg
PLX2000	2.0kW	430mm	860mm	108mm	527mm	8.0kg
PLX3000	3.0kW	430mm	860mm	143mm	527mm	10.0kg
24 hour timer models						
PLX500TI	0.5kW	430mm	450mm	108mm	117mm	4.8kg
PLX750TI	0.75kW	430mm	620mm	108mm	287mm	6.2kg
PLX1000TI	1.0kW	430mm	620mm	108mm	287mm	6.2kg
PLX1250TI	1.25kW	430mm	690mm	108mm	355mm	6.6kg
PLX1500TI	1.5kW	430mm	690mm	108mm	355mm	6.6kg
PLX2000TI	2.0kW	430mm	860mm	108mm	527mm	8.0kg
PLX3000TI	3.0kW	430mm	860mm	143mm	527mm	10.0kg
7 day timer models						
PLX2000TX	2.0kW	430mm	860mm	108mm	527mm	8.0kg
PLX3000TX	3.0kW	430mm	860mm	143mm	527mm	10.0kg
No controls models						
PLX500NC	0.5kW	430mm	450mm	108mm	117mm	4.8kg
PLX750NC	0.75kW	430mm	620mm	108mm	287mm	6.2kg
PLX1000NC	1.0kW	430mm	620mm	108mm	287mm	6.2kg
PLX1250NC	1.25kW	430mm	690mm	108mm	355mm	6.6kg
PLX1500NC	1.5kW	430mm	690mm	108mm	355mm	6.6kg
PLX2000NC	2.0kW	430mm	860mm	108mm	527mm	8.0kg

Colour/Finish

Willow white front and rear panels, with contrasting birch grey grille.

Sensitive thermostat

Conventional bi-metal thermostats can allow ‘drift’ of as much as 5°C in room temperature owing to the effects of the changing heater output, resulting in discomfort for the user and energy wastage. Dimplex PLX panel heaters feature close tolerance gas filled thermostats, maintaining room temperatures to within +/- 1.5°C, eliminating resultant under/over heating, and improving user comfort and energy efficiency.



Installation

Detachable wall mounting bracket.

IP rating

Splashproof IPX4.

Electrical connections

1.0m of supply cable fitted to each heater.

Thermal cut-out

Auto reset type.

Element

Compact, finned, mineral filled sheathed type, providing virtually noiseless operation.

Construction

Durable epoxy-polyester powder coated steel casing, with forward facing grille. Temperature resistant PBT thermoplastic moulded parts.

Electronic panel heater controls

This range of controllers provides fully programmable energy saving control for Dimplex electronic panel heaters, DuoHeat radiators and now even additional ancillary appliances, such as towel rails or hot water systems, providing unmatched levels of versatility and energy efficiency.

With options ranging from 24 hour digital timers for individual heaters, through to single or 4 zone multi heater programmers, there is a flexible and easy to use control solution available to meet the needs of virtually any application.

Choose the functionality you require from the first column, then check that this unit fits your product and specification needs.

See page 51 for towel rail and radio frequency controllers.

Control requirement	Model		Signalling method
24 hour control over one heater	Programmable 24 hour digital timer **RX24TI and RX24TIB**		**Single heater**
Runback timer for one heater	Electronic runback timer **RXRBTI and RXRBTIB**		**Single heater**
7 day control over multiple heaters	Single zone programming cassette **RXPW1**		**Pilot wire**
7 day control over multiple heaters	Single zone programming cassette **RX9911, RX9912 and RX9913**		**Pilot wire** (RX9911) **Mains borne signalling** (RX9912) (RX9913)
Multizone control from a wall mounted programmer	4 zone wall mounted programmers **RXPW4 and RXMBS4**		**Pilot wire** (RXPW4) **Mains borne signalling** (RXMBS4)
Running a towel rail or water cylinder from a wall mounted control	Pilot wire interface **RXPWIF**		**Pilot wire**

scan for more info
dimplex.co.uk/controls

Product features	Compatibility
Programmable 24 hour time control; panel heater can be configured to its own individual operating programme. • Plugs directly into panel heater • 4 programmable time periods, switching heater between on/off modes • Programme advance and manual override features • 1 timer required per heater • Cassette can be removed from heater for easy programming • Back lit LCD with powersave mode • Programmes saved in memory for 12 hours in event of power failure • Quick start user guides printed on rear of programming cassette • Available in white (RX24TI) or black (RX24TIB)	Monterey, Girona, Saletto and EPX
Allows the heater to operate only for a preset period of time each time the controller is activated. • Runback timer cassette – plugs directly into panel heater • Installer adjustable runback time, 30 mins to 4 hours (in 30 min increments) • Switches heater between on and off modes on button press • 1 timer required per heater • Can be locked into heater by installer, preventing user from tampering with time settings • Neon indicates when time period is active • Alternative 'advanced' mode allows heater to be controlled on comfort/background basis • Available in white (RX24TI) or black (RX24TIB)	Monterey, Girona, Saletto and EPX
Allows multiple panel heaters to be controlled on a common time programme, with slave heaters linked to a master heater via pilot wire. • 7 day, single zone pilot wire programming cassette – plugs directly into heater • Master/slave control – master heater fitted with programmer controls up to 10 slave heaters via pilot wire • 4 programmable time periods for weekdays and weekends, switching heater between on/off modes • Programme advance and manual override features • Cassette can be removed from heater for easy programming • Back lit LCD with power-save mode • Programmes saved in memory for 12 hours in event of power failure • Quick start user guides printed on rear of programming cassette	Monterey, Girona, Saletto and EPX
Allows multiple panel heaters to be controlled on a common time programme, with slave heaters linked to a master via pilot wires or mains borne signalling. • Master/slave control – master heater fitted with programmer controls up to 20 slave heaters (RX9913 receivers required for MBS versions) • Choice of 7 preset or 1 customisable programme per day of the week, switching heater between comfort and setback modes (note: not on/off) • Cassette can be removed from heater for easy programming • Programmes saved in memory for 4 hours in event of power failure • Quick start user guides printed on rear of programming cassette	RX9911/RX9912 – RPX and Apollo RX9913 – Monterey, Girona, Saletto, EPX, RPX and Apollo
Provides the flexibility of complete system control from the convenience of a single point. Each zone can be individually configured with a custom 7 day time programme. • Wall mounted, mains powered units • Installer configurable option to allow switching between comfort/setback modes, comfort/off modes or comfort/frost protection modes • Manual programme override facility, with automatic return to programme at next timed change • Continuous comfort, setback, frost protection and off modes* • Holiday (time absence) mode • Easy to install and configure • RXPW4 pilot wire programmer can be used with RXPWIF interface unit to control ancillary appliances, such as towel rails or hot water systems *Note: For mains borne signalling option, RX9913 receiver cassettes are required for each panel heater or RX03002 for each DuoHeat radiator. An RXMBSF mains filter is also required.* *Note: Pilot wire installations are appropriate for single phase connection only.* ** Off mode not applicable for DuoHeat.*	Monterey, Girona, Saletto, EPX, RPX, Apollo and DuoHeat radiator
Provides additional system versatility by allowing ancillary appliances, such as towel rails or water heaters, to be controlled via a pilot wire programmer (typically RXPW4 4 zone controller). • Allows control over ancillary appliances up to 3kW (16A) load (typically towel rail or hot water cylinder immersion heater) • Installed local to the appliance being controlled. 38mm single gang wiring accessory back box required (not supplied) • Switches power to appliance when programmer in comfort mode; disconnects supply when programmer in all other modes • Ideal for use with RXPW4 4 zone pilot wire programmer	Towel rails and hot water immersion heater cylinder rated up to 3kW (16A) load

Introduction to storage heating

Fig. A

What is a storage heater?

A storage heater is an electric heater specifically designed to operate using cheaper off-peak electricity and, as the name implies, to store heat. There are four types of heater, each offering different levels of comfort control:

- Manual control models
- Automatic models
- Combination models
- Smart fan assisted models

To see a video explaining how electric storage heating works, please visit www.dimplex.co.uk/how

How does a storage heater work?

Off-peak electricity is supplied from the national grid to your house, usually overnight when demand for electricity nationally is low. This is called the 'off-peak' period (fig. A).

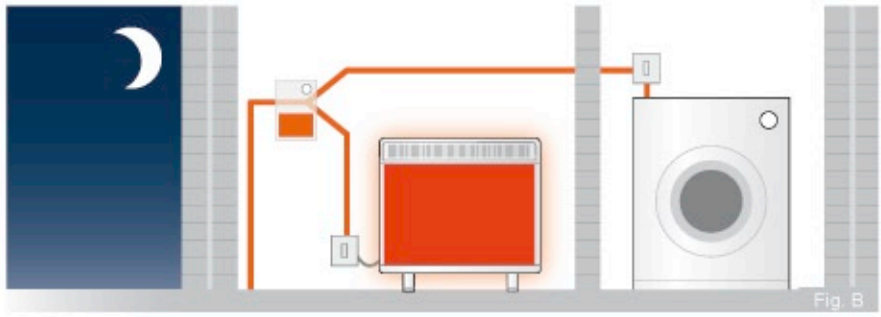


Fig. B

Because it is off-peak it is supplied at a cheaper price than normal 'day rate' electricity so it requires a separate off-peak electrical circuit and meter. This circuit is dedicated to operating the storage heaters and is only switched on during the off-peak time period (fig. B). This will occur only at certain times of the day or night, and will be dictated by your individual electricity supplier.

In the same way as your kettle uses an element to heat water, electricity is used to heat elements in your heater where, over a number of hours, the elements gradually transfer the heat to very high density material that absorbs and stores the heat for use during the next day. The storage heater uses state-of-the-art insulation material to retain as much of this heat for as long as possible (fig. C).

When the off-peak period finishes the heat is gradually released into the room in a controlled way over the course of the day (fig. D).

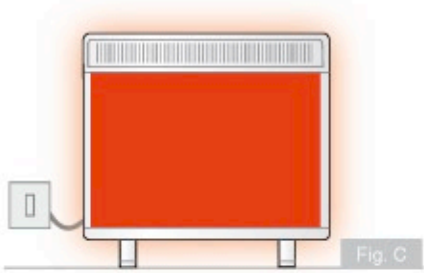


Fig. C

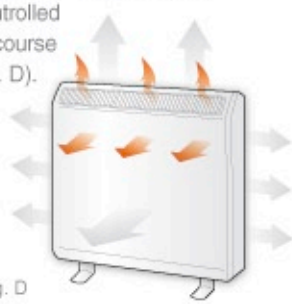


Fig. D

Model XLS18

scan for more info
dimplex.co.uk/how

Model CXLS18

What are the benefits of storage heating?

Here we look a little more closely at all the advantages that come with your storage heaters.

Whether you have a new installation, an existing one, or are thinking about installing one, it's good to know the benefits when compared to other types of heating.

With all models these include fast, easy installation (no pipes, boiler or flue) and 24 hours of warmth for the cost of 7-10 hours' worth of cheap rate electricity. Storage heaters also have a number of other benefits including:

- Require no annual maintenance
- Are clean
- Are safe
- Are easily upgradable
- Have a very long life
- Are 100% efficient

All storage heaters come with this impressive list of benefits but please view the products individually for their specific features and benefits. Further information can be found on our website, along with full product specifications, operating guides, video guides, questions and answers, local installers and service information.

If you want to see how each model operates you can view the individual product videos on the website at www.dimplex.co.uk/support

Running cost comparisons

When it comes to making comparisons between the efficiencies and running costs of direct-acting (conventional electric space heating) appliances of various types and electric storage space heaters, there should be no confusion, since the comparisons are very straightforward.

Because storage heaters use energy supplied by low-cost, off-peak electricity, for a given property they will always be cheaper to run over a 16 hour day, rather than direct-acting heaters which use day-rate electricity, whether these are convectors or fluid filled heaters.

Direct acting heaters, such as panel or standard convector heaters, oil or water filled radiators are unable to take full advantage of off-peak electricity and are designed to use standard rate electricity, so they provide fairly instant heat when they are switched on. They are mostly used for rooms which only require heating for short periods, like bedrooms, although in compact, well insulated modern properties they can be used as a complete heating system.

The DUO range

Model DUO400N

Features

- Patented 'smart' heat manager automatically controls output level from each heat source, optimising controllability and economy*
- Single, simple to use and understandable electronic control, with child lock facility
- Energy-efficiency savings of up to 10% compared with traditional off-peak electric heating systems, recognised by SAP2005, the tool for showing compliance with Part L of the Building Regulations
- Compatible with Dimplex 4 zone, wall mounted pilot wire and mains borne signalling multi heater programmers
- Stylish, slimline design with concealed outlet grille
- Heat output provided by a combination of off-peak and standard rate electricity sources
- Pre-wired electrical connections
- Simple, secure wall fixings
- Snap fit feet
- Easy-fit front panel connections
- Compatible with all off-peak tariffs

*Patent number: GB2384300.

By providing heat from an automatically managed mix of off-peak and direct-acting sources, DuoHeat provides the flexibility and controllability to match users' lifestyles and ensures plenty of heat is available throughout the day or evening whenever it's needed, while keeping running costs low.

Model DUO400N

scan for more info
dimplex.co.uk/duo

Controls

Room temperature controls

Integral user adjustable electronic room thermostat controlling both front panel element operation and temperature. Set via LED membrane display on top of heater. Child lock facility.

Input charge control

Electronic room temperature sensing thermostat with external sensor. Limits charge in relation to room temperature during charge period. User selectable setting.

Thermal safety devices

Automatic reset core limit thermostat and manual reset over temperature cut-out.

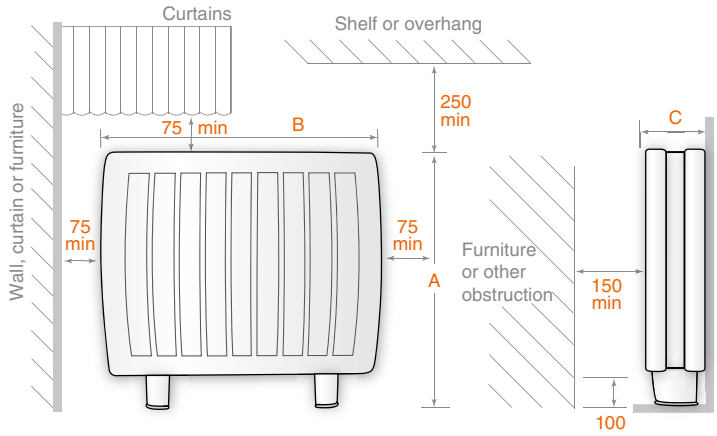
Central control

Enabled for pilot wire connection as standard. Mains borne controller (RXMBS4) and mains filter (RXMBSF4) is required. Each DuoHeat radiator also requires a receiver (RX03002) for signalling connection. See pages 32-33 for central control compatibility details.

Controller mode	Heater function
Comfort	Heater functions at electronic thermostat setting
Setback	Temperature controlled at 2°C below electronic thermostat setting
Frost protection	No front panel operation. Off-peak elements maintain frost protection

Technical information

Dimensions and clearances (mm)



Model	DUO300N	DUO400N	DUO500N
Height A	712mm	712mm	712mm
Width B	600mm	830mm	1060mm
Depth C	130mm + 10mm	130mm + 10mm	130mm + 10mm
Weight (installed)	65kg	94kg	124kg
Nominal output	0.7kW	1.0kW	1.4kW
Charge acceptance	9.1kWh	13.65kWh	18.2kWh
Background/input	1.3kW	1.95kW	2.6kW
Radiant	0.38kW	0.47kW	0.54kW

Colour/Finish

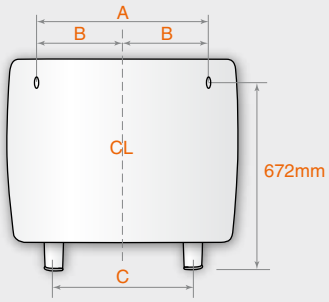
White and grey.

Installation

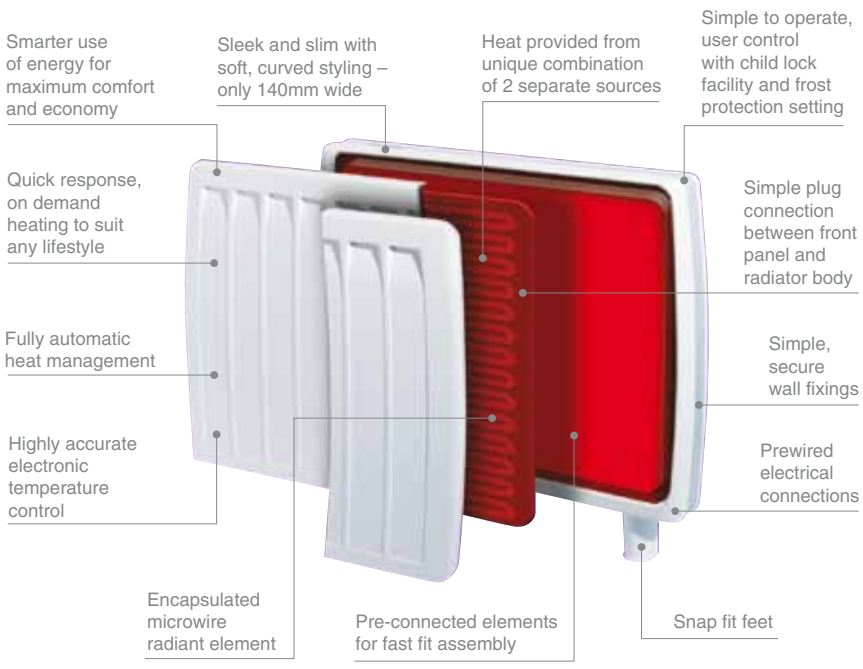
Off-peak supply – located at front left hand end of base. Prewired with 1.6m 3 core, 2.5mm² cable.

24 hour supply – located at front right hand end of base. Prewired with 1.6m 4 core, 0.75mm² cable (for pilot wire control).

Fixing dimensions



Model	DUO300N	DUO400N	DUO500N
Width A	424mm	652mm	880mm
Width B	212mm	326mm	440mm
Width C	295mm	523mm	751mm


Smarter use of energy for maximum comfort and economy
Sleek and slim with soft, curved styling – only 140mm wide
Heat provided from unique combination of 2 separate sources
Simple to operate, user control with child lock facility and frost protection setting
Quick response, on demand heating to suit any lifestyle
Simple plug connection between front panel and radiator body
Fully automatic heat management
Simple, secure wall fixings
Highly accurate electronic temperature control
Prewired electrical connections
Encapsulated microwire radiant element
Pre-connected elements for fast fit assembly
Snap fit feet

The XLN and XLSN ranges

Model XLS12

The UK's slimmest and most popular storage heaters offer performance, economy, ultra slim design and maintenance free reliability. The XLN and XLSN are suitable for a wide range of domestic and commercial applications. The heating level of XLN range is adjusted by means of a variable input control, which the occupant sets in line with the changing weather conditions.

Features

- XLSN range features automatic charge regulator, which automatically adjusts the level of input charge to compensate for changing weather conditions without user intervention
- Running cost savings of up to 15% can be achieved using automatic controller (XLSN) compared to manual static (XLN) storage heaters
- Less than 150mm (6 inches) deep
- Smooth curved styling
- XLN range features manually adjustable charge regulator to control the amount of heat stored during the charge period
- Room temperature boost control increases heat output when required and may be used automatically or manually
- Easy to use controls, out of sight of young children
- Frontal grille for efficient heat distribution
- Secure wall fixings for safety
- Feet may be fitted under carpet or on top of a suitable floor covering
- Matches the PLX range of panel heaters
- Compatible with all off-peak tariffs
- Drip proof construction (IPX2 rated)

Model XLS18

scan for more info
dimplex.co.uk/xl

Controls

The control knobs are positioned on the sloping rear top panel of the heater, and are therefore out of sight of young children. The knobs incorporate a crossbar and raised pointer for ease of operation.

Charge controller – XL

Type: Bi-metal, adjustable from zero charge to fully charged condition.

Charge controller – XLS

Type: Hydraulic close differential room temperature sensing thermostat with external sensor.

Thermal safety device

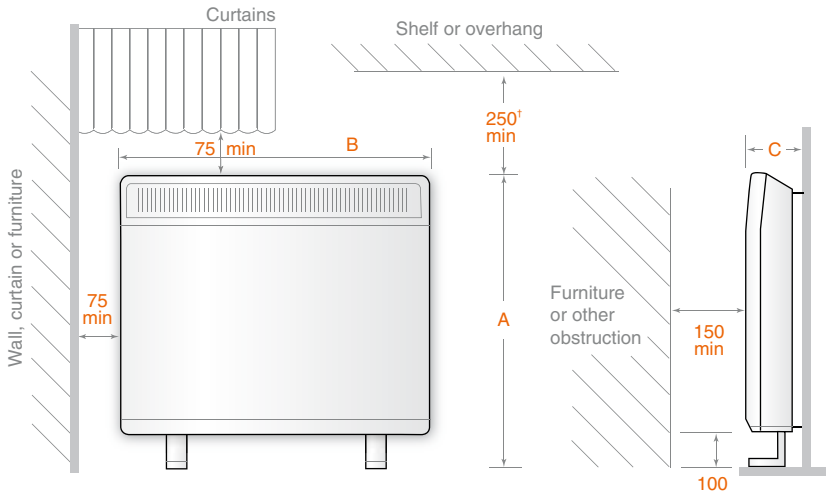
Type: Bi-metal – manual reset.

Damper control

Type: Bi-metal strip, selection variable from early to late or zero boost.

Technical information

Dimensions and clearances (mm)



†When using Dimplex shelves a clearance of 150mm must be maintained.

Model	XL12N/XLS12N	XL18N/XLS18N	XL24N/XLS24N
Performance input rating	1.70kW	2.55kW	3.4kW
Charge acceptance (7 hour continuous)	11.9kWh	17.85kWh	23.8kWh
Height (A)	706mm	706mm	706mm
Width (B)	565mm	793mm	1021mm
Depth (C)	146mm	146mm	146mm
Shelf Model	SHE12	SHE18	SHE24

Wall bracket fixing

Model	Wall bracket width	No. of fixing slots
XL12N/XLS12N	542mm	4
XL18N/XLS18N	770mm	5
XL24N/XLS24N	998mm	6

Colour/Finish

Front panel, sides and top panel – willow white; rear heat shield, wall spacer and grille – contrasting birch grey.

Supply connection

Located at front right hand end of base – accessible by removal of front panel assembly. Hidden cable support straps at rear of heater allow neat supply cable connection from either side of heater.

Assembly

Remove front panel assembly then front inner skin. Remove internal packing containing elements, position rear layer of bricks, heating elements, and front layer of bricks.

IP rating

Drip-proof IPX2.

Storage bricks

Supplied, 2 bricks per pack.
Approx weight of brick 7.5kg each.

Model	Weight without bricks	Weight with bricks	No. of bricks
XL12N/XLS12N	20kg	76kg	8
XL18N/XLS18N	26kg	109kg	12
XL24N/XLS24N	32kg	144kg	16

Accessories

Please refer to page 43 for optional accessories.

The CXLSN range

Model CXLS18

By providing two heaters in one compact case, the CXLSN saves space, and its smooth curved styling complements XLSN storage heaters and PLX panel heaters.

Features

- CXLSN range features automatic charge regulator, which automatically adjusts the level of input charge to compensate for changing weather conditions without user intervention
- Provides a continuous source of warmth, primarily from cheap off-peak electricity
- Convector gives completely silent top-up heating
- Convector thermostat can be set to maintain constant room temperatures and automatically switch on as necessary
- Conveniently positioned convector controls on the front panel
- Lower convector loadings selectable on installation
- Secure wall fixing for safety
- Feet may be fitted under carpet or on top of suitable floor covering
- Simple assembly for flexible positioning and quick installation
- See page 43 for accessories

scan for more info
dimplex.co.uk/cxls

Storage controls

The control knobs are positioned on the sloping rear top panel of the heater, and are therefore out of sight of young children. The knobs incorporate a cross bar and raised pointer for ease of operation.

Charge controller

Type: Hydraulic close differential room temperature sensing thermostat with external sensor.

Thermal safety device

Type: Bi-metal – manual reset.

Damper control

Type: Bi-metal strip, selection variable from early to late or zero boost.

Convector controls

Located to right of convector air outlet grille.

Room temperature thermostat

Type: Hydraulic, adjustable.

Safety cut-out

Type: Bi-metallic, disconnect supply to reset type.

On/off switch

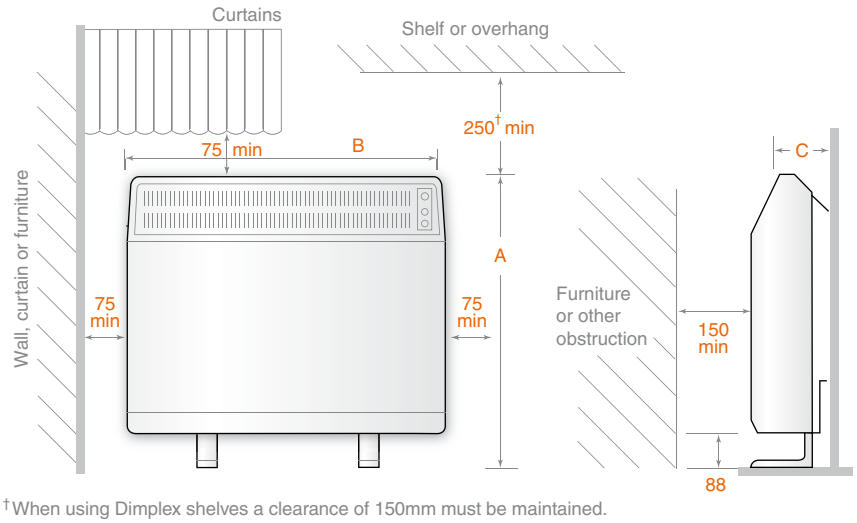
Type: Single pole incorporating neon which illuminates when switch is in on position.

Neon

An additional neon illuminates when convector heater is drawing current.

Technical information

Dimensions and clearances (mm)



†When using Dimplex shelves a clearance of 150mm must be maintained.
The wall fixing arrangement is adjustable to accommodate for skirtings up to 150mm high and 25mm deep.

Model	CXLS12N	CXLS18N	CXLS24N
Storage heater performance input rating	1.7kW	2.55kW	3.4k
Charge acceptance 7 hour	11.9kWh	17.85kWh	23.8kWh
Convector heater performance Maximum output	900W	1450W	2000W
Other outputs available (Set on installation)*	450W	450W, 1000W	650W, 1350W
Height (A)	706mm	706mm	706mm
Width (B)	565mm	793mm	1021mm
Depth (C)	193mm	193mm	193mm
Shelf model	SHE12	SHE18	SHE24

*Element can be derated by 50% on installation.

Wall bracket fixing

Model	Wall bracket width	No. of fixing slots
CXLS12N	542mm	4
CXLS18N	770mm	5
CXLS24N	998mm	6

Colour/Finish

Willow white top, sides and front panel. Contrasting birch grey grille, rear heat shield and wall spacer.

Supply connection

Located at front left end of heater base. Cable entry at left hand end. Cable support straps at rear of heater allows neat supply connection from either side of heater.

Assembly

Remove front panel assembly then front inner skin. Remove internal packing containing elements, position rear layer of bricks, heating elements, and front layer of bricks.

IP rating

IPX2.

Storage bricks

Supplied, 2 bricks per pack.
Approx brick weight 7.5kg each.

Model	Weight without bricks	Weight with bricks	No. of bricks
CXLS12N	19.5kg	77kg	8
CXLS18N	24kg	111kg	12
CXLS24N	29.5kg	146kg	16

Element – convector heater

Type: Stitched ribbon.
Material: Nickel/Chrome/Iron.
Element can be derated by 50% on installation.

Accessories

Please refer to page 43 for optional accessories.

The XL6N and XLS6N range

Model XL6N

Features

- XLS6N has automatic input control to automatically regulate the input charge according to changing weather conditions
- Designed for wet areas such as bathrooms
- Suitable for use in confined areas, for background heating, or to supplement an existing system
- XL6N has preset input control
- Performance input rating – 0.85kW
- Charge acceptance 7 hour – 5.95 kWh
- Secure wall fixing for safety
- Feet may be fitted under carpet or on top of suitable floor covering
- Simple assembly for flexible positioning and quick installation
- Compatible with all off-peak tariffs
- Accessory towel rail (part no. STR6) and shelf (SHE6) available

Colour/Finish

Willow white top, sides and front panel.

Supply connection

Located at front right hand end of base. Cable entry bush and cable clips allow neat supply cable entry from either side of heater.

Assembly

Remove one piece grille/front panel assembly then front inner skin. Remove internal packing and element, position rear layer of bricks, heating element, and front layer of bricks.

IP rating

Drip-proof IPX2.

Storage bricks

Supplied, 2 bricks per pack.
Approx brick weight 7.5kg each.
Weight without bricks 11kg.
Weight with bricks 41kg.

Mini storage heaters are extra compact versions of our popular XL and XLS storage heaters bringing the benefits of off-peak heating to areas which were traditionally too small for storage heaters such as bathrooms, cloakrooms and en suites. They are ideal for topping up existing heating in cold spots, improving the overall comfort and efficiency of the system.

Controls

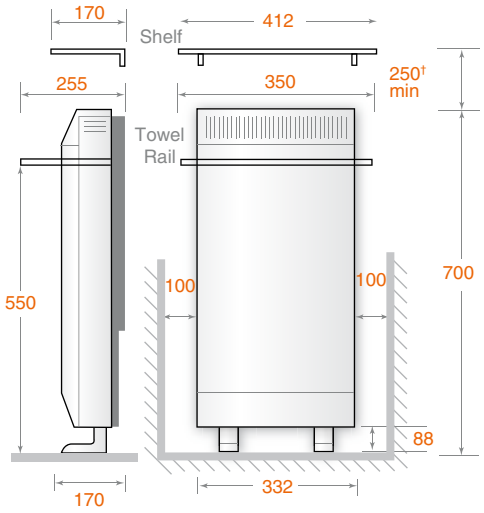
Charge Controller – XL.

Type: Bi-metal factory preset for fully charged condition.

Thermal safety device

Type: Bi-metal – manual reset.

Dimensions and clearances (mm)



†When using Dimplex shelves a clearance of 150mm must be maintained.

A clearance of 75mm must be maintained between the heater surface and any curtains.

scan for more info
dimplex.co.uk/xl6

Accessories

Model XL12

A wide range of accessories is available to increase the versatility of Dimplex storage heaters.

Protective guards

A range of protective guards designed for Dimplex storage heaters is available to order. These ensure contact with the hot surface of the heater case is avoided and objects cannot be inserted into the product. Guards can be simply positioned over the heater or fixed to the wall.

While the guard will protect against contact with the heater and will be much less hot than the heater, it is important to note that the guard does still get hot, particularly in the area adjacent to the air outlet grille of the heater. For this reason, Dimplex strongly recommends that vulnerable groups such as the elderly, infirm or young children are always adequately supervised in the vicinity of the heater.

For situations which demand low surface temperature (L.S.T.), appliance guards to comply with NHS estates guidelines can be made to special order. Guards have a robust epoxy willow white coating to match the heaters. Guards are also available for other selected Dimplex products. Please contact Aiano direct on 0207 987 1184 or visit www.aianos.co.uk for details.

Storage heater shelves

Available to suit most Dimplex storage heaters, these robust steel shelves are finished to match the heaters and provide protection against heaters being covered. A minimum clearance of 150mm between the heater and the shelf must be maintained.

Shelves for storage heaters

Model	Shelf ref.	Length mm	Height mm	Depth mm
XL6N/ XLS6N	SHE6	412	150	170
XL12N/ XLS12N/ CXLS12N	SHE12	640	150	170
XL18N/ XLS18N/ CXLS18N	SHE18	870	150	170
XL24N/ XLS24N/ CXLS24N	SHE24	1095	150	170

Surface temperature

Dimplex products comply with EN60335, the European Standard covering safety requirements of electric heating appliances, and momentary contact with any part of the heater should not cause injury. However in order to be effective, heaters of any type do get hot especially around the air outlet grille.

Therefore, if aged or infirm persons, or young children, are likely to be left unsupervised in the vicinity of a heater, we advise that precautions should be taken to ensure that contact cannot occur. We recommend that a guard is fitted around the heater as is normal with some types of heating appliances in similar circumstances.

scan for more info
dimplex.co.uk/accessories

The TDTR range

Features

- Compatible with the Dimplex radio frequency controllers
- Even heat distribution
- Rapid towel drying
- Compact, slimline design
- Choice of chrome or white finish

Model TDTR350C

Sleek. Elegant. With a gentle curve of the rail, the Daytona is destined to become the latest 'must have' design in any contemporary bathroom. Available in sparkling chrome or cool white and in four sizes, specification comes easy for any size of room.

Controls

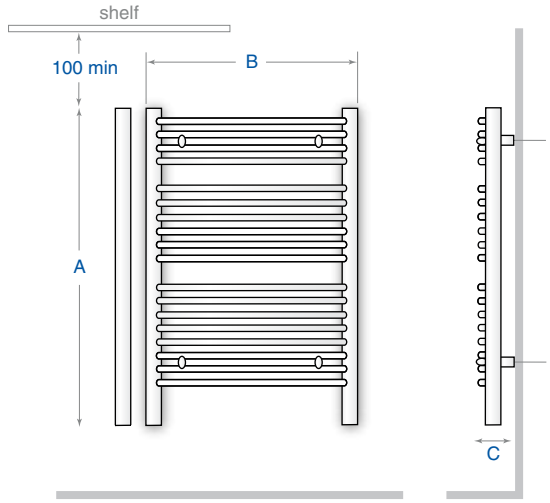
See page 51 for control options.

Model TDTR175W

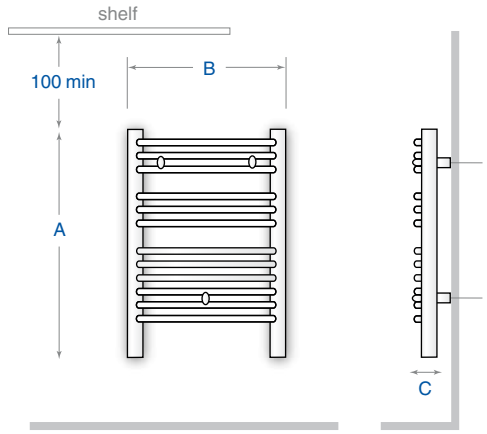
scan for more info
dimplex.co.uk/tdtr

Technical information

TDTR350 dimensions (mm)



TDTR175 dimensions (mm)



Model	Finish	Output	Height (A)	Width (B)	Depth (C)	No. rails	Weight
TDTR175W	White	175W	610mm	453mm	80 – 100mm	12	6kg
TDTR350W	White	350W	843mm	602mm	95 – 115mm	18	11kg
TDTR175C	Chrome	120W	610mm	453mm	80 – 100mm	12	6kg
TDTR350C	Chrome	250W	843mm	602mm	95 – 115mm	18	11kg

Colour/Finish

White powder coated or chrome plated.

Installation

TDTR175W/TDTR175C –
Supplied with 3 wall mounting brackets.

TDTR350W/TDTR350C –
Supplied with 4 wall mounting brackets.

IP rating

Splashproof IPX5 for bathroom use.

Electrical connections

1.0m pre-fitted cable.

Cable entry at bottom left rail.

Installations must be in accordance with current IEE wiring regulations.

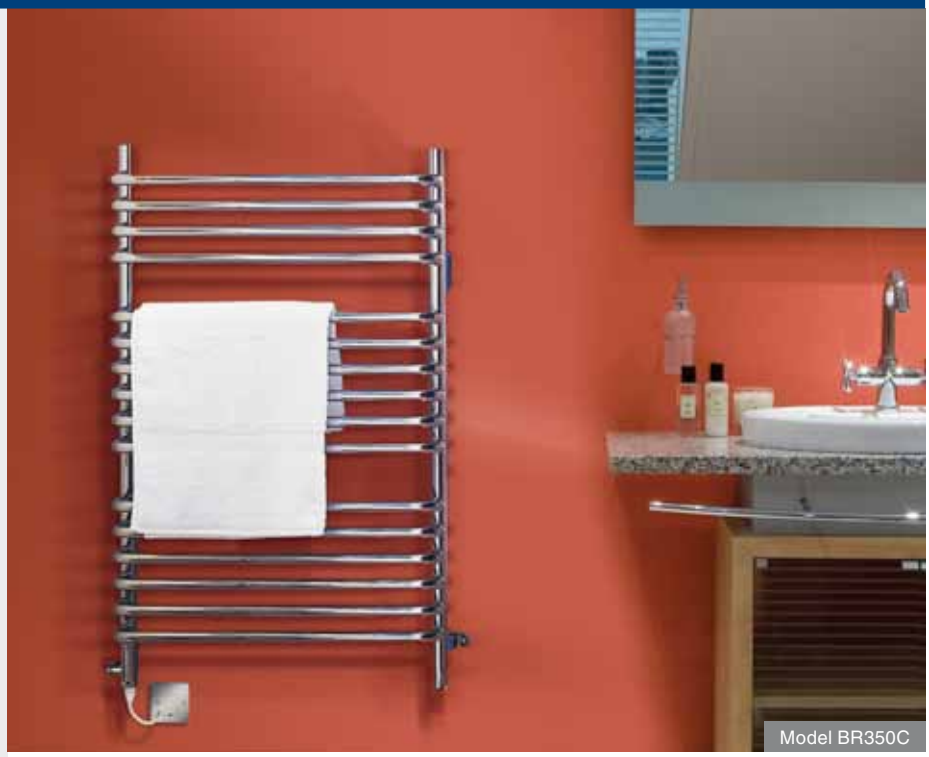
Thermal cut-out

2 x auto resetting temperature limiter.

Construction

Sealed steel shell. D shaped upright bars.

The BR range


Model BR350C

Features

- Compatible with the Dimplex radio frequency controllers
- Ladder design maximises capacity for hanging damp towels and clothes
- Slim vertical design to maximise use of wall space even in confined areas
- No external controls
- Built-in over temperature cut-out
- Sealed, liquid filled design for maintenance free use
- Provided with inlet/outlet plumbing connections – no expensive adaptors needed
- Supplied ready for electric use, but may also be connected to a water central heating system with the electric element available for use when the boiler is off
- Choice of models in white or chrome finish
- IPX5 rated for bathroom use

The Dimplex BR range creates a new generation of stylish multi-purpose bathroom radiators. Higher output models provide an ideal combination of room heating with efficient drying of towels and other fabrics.

Controls

Built-in temperature limiter and overheat protection. Suitable for connection to external thermostats or timers, in accordance with IEE regulations.
See page 51 for control options.

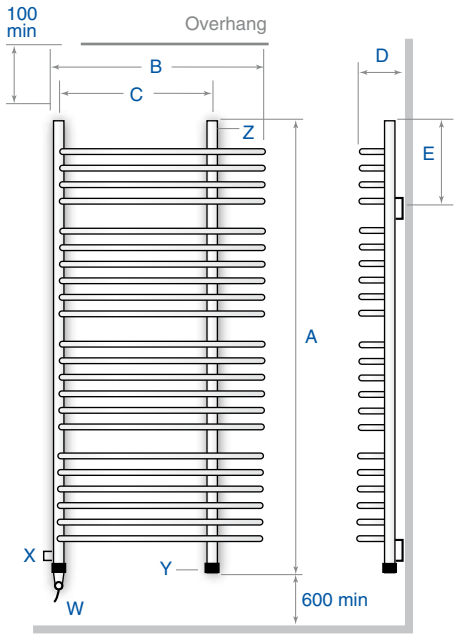
Model BR150C

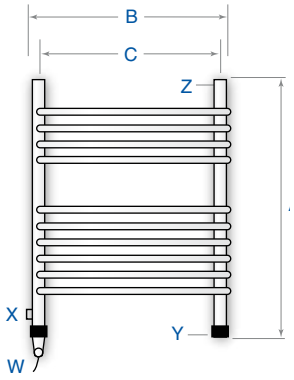
Model BR400W

scan for more info
dimplex.co.uk/br

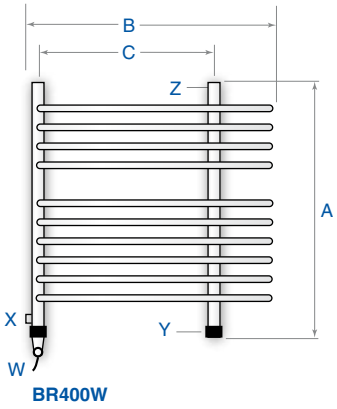
Technical information

Main and fixing dimensions (mm)





BR150W BR150C BR350C



BR400W

Clearances and fixing centres (all models)

W = electrical element cable termination

X = water inlet (flow) connection

Y = water outlet (return) connection

Z = bleed valve

Note: Please refer to tables below for number of rails.

Model	BR150W	BR150C	BR350C	BR400W
Finish	White	Chrome	Chrome	White
Output (Electric)*	150W	150W	350	400W
Approx output (Water)*	320W	320W	750W	840W
Height (A)	665mm	665mm	1003mm	1003mm
Width (B)	430mm	430mm	630mm	630mm
C	385mm	385mm	603mm	447mm
Depth (D)	155mm	155mm	155mm	155mm
E	268mm	268mm	268mm	268mm
No. of rails	10	10	16	16
Weight	6.5kg	6.5kg	13kg	15kg

*For BTU output multiply by 3.412.

Finish

White powder coated or chrome plated.

Installation

Supplied with wall mounting points and brackets.

IP rating

Splashproof IPX5 for bathroom use.

Electrical connection

1 metre of electrical cable pre-fitted. Cable entry at base of left header tube. Installations must be in accordance with current IEE wiring regulations.

Construction

Sealed, liquid filled steel shell. Water based fluid with glycol frost/ corrosion inhibitor. Vertical mounted immersion element.

Installation to radiator circuit

Installation must be in accordance with manufacturer's instructions. Liquid is drained by removing bungs to inlet/outlet connections (½ inch BSP fittings). Connect to radiator circuit (electric element remains in situ). Radiator refilled from radiator circuit and bled using valve concealed below top right header cap. Electrical connection as electric only installation.

Operation when part of radiator circuit

When the central heating system is in use the appliance will act as a normal radiator. Out of season or when the boiler is not in use the radiator may be operated independently by switching on the electric element. In use expansion of water must be guaranteed through return connection. Return connection should be left open to ensure this.

Water inlet connection

The TR and S ranges

The TR and S ranges can be used with the Dimplex radio frequency controllers.

TR features

- A range of five models
- Choice of sizes and finishes
- Oil filled
- Larger models will help to take the chill off a small bathroom or cloakroom
- Mains neon indicator
- Splashproof (IPX4 rated) for use in bathrooms and other wet areas
- Supplied with wall mounting brackets as standard

S features

- Oil filled tubular steel towel rail
- Durable white stove enamel (S50W, S70) or chrome plated (S50C)
- S50W provides lower surface temperature
- Suitable for wall mounting only
- Splashproof (IPX4 rated) for use in bathrooms and other wet areas

Model TRS120W

What a difference warm, dry towels make! With a Dimplex towel rail you can have them all the time but at amazingly low running costs.

The popular S range is ideal for drying and airing small towels in areas such as kitchens, cloakrooms and en suites.

The low wattage element provides an even surface temperature and very economical operation.

TR range towel rails are permanently liquid filled for maintenance free operation. They can be mounted for left or right hand cable entry.

No plumbing. No problems. And they can be left switched on indefinitely.

Controls

See page 51 for control options.

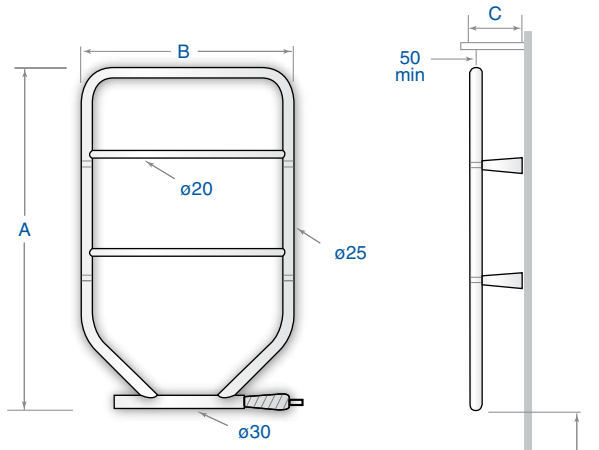
Model S50C

scan for more info
dimplex.co.uk/trs

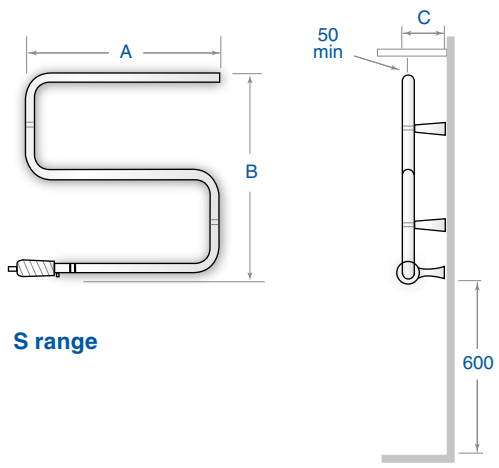
Model TRC130W

Technical information

Main and fixing dimensions (mm)



TR range



S range

Model	Loading	Height (A)	Width (B)	Depth (C)	Finish
TRC90/W	60W	616mm	533mm	93mm	Chrome
TRS120/W	120W	616mm	533mm	93mm	White
TRC130/W	90W	851mm	533mm	93mm	Chrome
TRC150/W	120W	851mm	787mm	93mm	Chrome
TRS175/W	175W	851mm	533mm	93mm	White
S50C	45W	555mm	568mm	93mm	Chrome
S50W	45W	555mm	568mm	93mm	White
S70	70W	555mm	568mm	93mm	White

Colour/Finish

White stove enamel or chrome plated. As a plated finish radiates less heat away from its surface, the plated models have a lower loading compared with the equivalent physical size stove enamel model, so that both have a similar surface temperature.

IP rating

S: Splashproof IPX4 for bathroom use.

TR: Splashproof IPX4 for bathroom use.

Electrical connections

Supply cable is provided for connection to the fixed wiring of the premises via a suitable double pole isolating switch. Installation must be carried out strictly in accordance with the current edition of the IEE wiring regulations. If the towel rail is fitted in a bathroom essentially these regulations preclude the use of a plug and socket and any control switch must be normally inaccessible to a person using a fixed bath or shower. The pull cord of a cord-operated switch is not affected by this regulation.

Construction

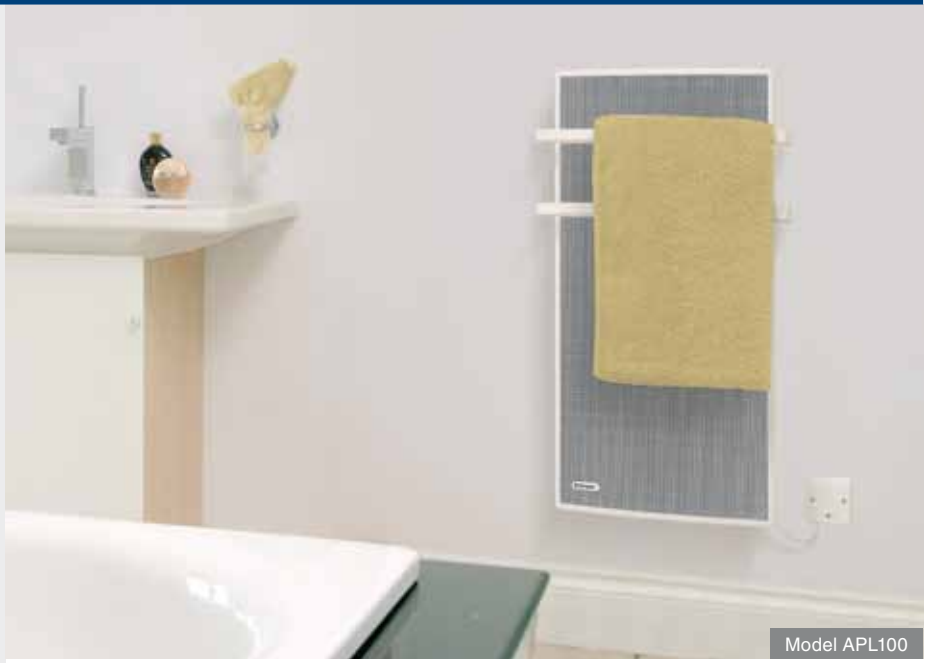
Tubular steel.

S range – oil filled.
TR range – oil filled.

Cable entry

All models – left or right hand.

The Apollo


Model APL100

The unique Apollo radiant panel bathroom heater provides the ultimate in bathroom heating. Combining the benefits of high comfort radiant panel heating with the added convenience of fixed rails for drying and airing towels, Apollo is the ideal solution where towel drying and full room heating are required from a single appliance.

Features

- Fitted with an electronic thermostat, accurate to within +/- 0.1°C to maintain a stable room temperature
- User selectable comfort, background and frost protection settings
- Compatible with Dimplex single or 4 zone multi heater programmers
- Compact, stylish casing with distinctive curved grille
- Two fixed towel hangers (not heated)
- Highly comfortable radiant heat output, reducing heat stratification
- Splashproof (IPX4 rated) for use in bathrooms and wet areas
- Controls cover which can be locked if necessary

Colour/Finish

White.

Installation

A detachable wall mounting frame allows quick wall fixing.

IP rating

Splashproof (IPX4 rated) for use in wet areas.

Electrical connections.

2m, 4 core cable (live, neutral, earth and pilot wire) supplied fitted to each heater.

Elements

Two mineral filled sheathed electric elements are embedded in aluminium heating plates. Low element operating temperature of around 200°C reduces air drying effects and dust burning. The heating plates have a unique design – the forward face is finished in matt black and has greater surface area to maximise radiant heat. The reverse side is in its natural smooth aluminium state to minimize heat loss to the wall.

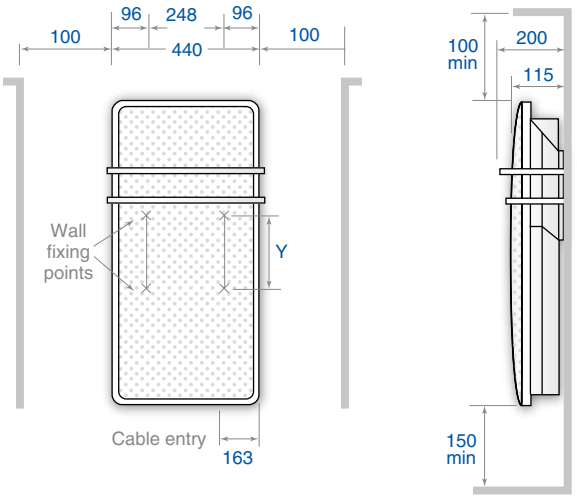
Construction

Durable polyester powder coated steel with mesh steel front grille.

Controls

Please refer to RPX controls on page 28 for full details of the onboard controls. For additional control options please see pages 32-33.

Main and fixing dimensions (mm)



Model	Loading	Height	Width	Y	Weight
APL100	1.0kW	830mm	440mm	468mm	7.2kg

scan for more info
dimplex.co.uk/apl

The RF range

Model RF24T

This range of controls provides energy saving control for Dimplex towel rails. Dimplex offers a range of RF controllers and receivers to provide energy saving control over your heaters, to deliver the greatest possible levels of energy efficiency.

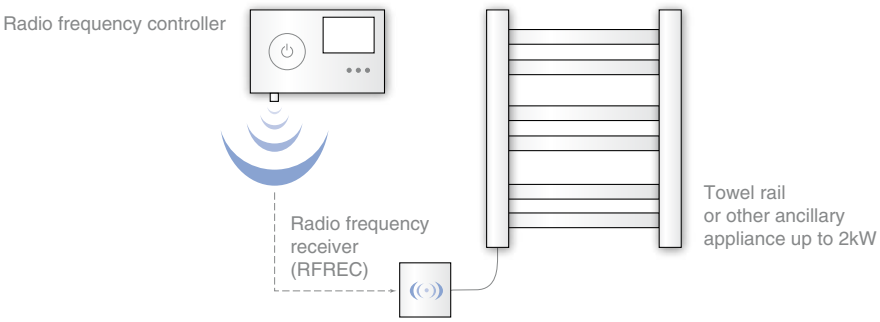
By utilising radio waves to transmit their signal, radio frequency controls remove the need to wire controls to their receivers – meaning quick, easy and trouble-free installation.

Perfect for controlling towel rails or other ancillary appliances up to 2kW, which otherwise have no means of thermostatic control.

- Wall mounted controller unit that comes complete with RF receiver which must be wired to the relevant appliance
- Splashproof (IPX4 rated) for use in wet areas
- Multiple receivers can be controlled by a single controller
- Additional receivers sold separately (RFREC)

Model RFBT

Model RFREC



Features

RF24T and RF07T

- Wall mounted LCD programmer
- RF24T offers 24 hour programming, with 4 programmable time periods, switching heater between on/off modes
- RF07T offers 7 day programming, with 4 programmable time periods for weekdays and weekends, switching heater between on/off modes
- Both controllers feature:
  - Back lit LCD screen with power save mode
  - 30 minute boost button
  - Thermostatic control
  - Fits single gang recessed wiring accessory back box

RFBT

- Wall mounted rotary controller
- Offers RF thermostatic control
- 30 minute boost button
- Fits single gang wiring accessory back box

RFREC

- Additional receiver for use with RF controllers/programmers (RFBT, RF24T, RF07T)
- Allows additional ancillary heater up to 2kW to be controlled simultaneously

scan for more info
dimplex.co.uk/trcontrols

The FX and FXIPX4 range

Model FX20VL

The FX range

With their compact design, FX downflow fan heaters are the popular choice for heating bathrooms and en suites as well as kitchens.

The powerful 2kW output ensures a fast warm up, although 1kW output is selectable on installation for smaller rooms.

All models have visual on/off indicator, full safety protection and are simple to install.

The FXIPX4 range

The FX20IPX4 and FX20EIPX4 with an innovative patented* design and latest technology to provide an IPX4 rated fan heater for unrivalled versatility when it comes to installation. This unique feature allows greater installation flexibility in bathroom locations.

Combined with a sleek, modern look, the IPX4 rated FX downflow heaters provide an ideal heating solution for almost any bathroom, en suite or kitchen.

*Patent pending at time of print.

Model FX20IPX4

scan for more info
dimplex.co.uk/fx

The FX range features

FX20V

- 2kW maximum output
- Pull-cord operation
- Neon indicator
- Energy saving thermostat switches output down to 1kW once the room is warm (functions on 2kW setting only)
- 2kW or 1kW output selectable on installation

FX20VE

- Time period adjustable between 5 and 155 minutes on installation
- Heater can be manually switched off before time period expires
- 2kW maximum output
- Pull-cord operation
- Neon indicator
- Energy saving electronic timer automatically switches heater off after a preset time period to prevent it being left on accidentally
- 2kW or 1kW output selectable on installation

FX20VL

- Designed for low level mounting
- No pull cord
- 2kW maximum output
- Neon indicator
- Adjustable thermostat control
- 2kW or 1kW output selectable on installation

The FXIPX4 range features

FX20IPX4

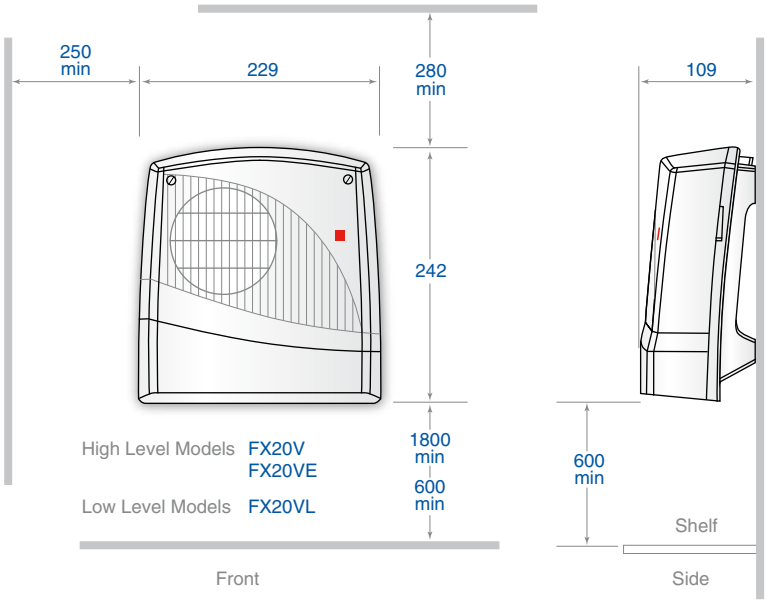
- 2kW maximum output
- Pull-cord operation
- Neon indicator
- IPX4 rated
- Identical footprint to current FX20 models, meaning that retro-fitting an IPX4 model is incredibly simple
- Energy saving thermostat switches output down to 1kW once the room is warm (functions on 2kW setting only)
- 2kW or 1kW output selectable on installation

FX20EIPX4

- Time period adjustable between 5 and 155 minutes on installation
- Heater can be manually switched off before time period expires
- 2kW maximum output
- Pull-cord operation
- Neon indicator
- IPX4 rated
- Identical footprint to current FX20 models, meaning that retro-fitting an IPX4 model is incredibly simple
- Energy saving electronic timer automatically switches heater off after a preset time period to prevent it being left on accidentally
- 2kW or 1kW output selectable on installation

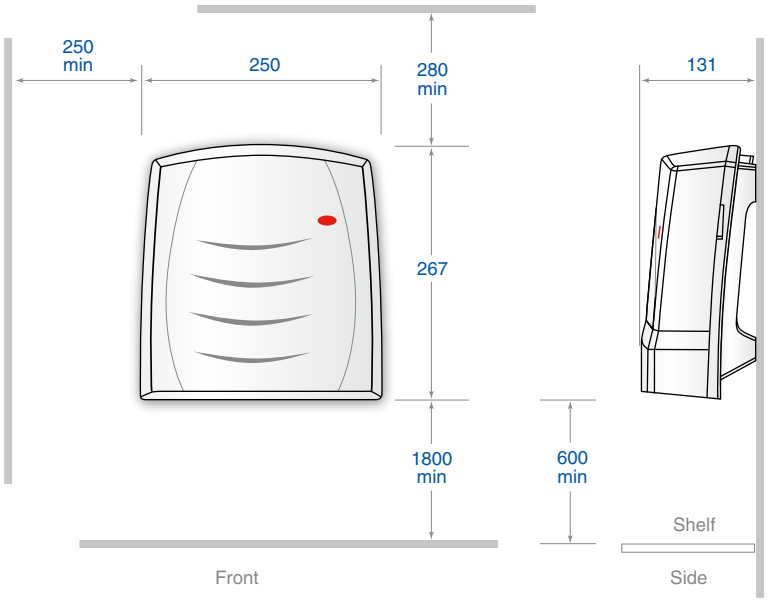
Technical information

FX main dimensions (mm)



Model	Loading	Height	Width	Depth	Weight
FX20V	2.0kW	242mm	229mm	109mm	1.1kg
FX20VE	2.0kW	242mm	229mm	109mm	1.1kg
FX20VL	2.0kW	242mm	229mm	109mm	1.1kg

FXIPX4 main dimensions (mm)



Model	Loading	Height	Width	Depth	Weight
FX20IPX4	2.0kW	267mm	250mm	131mm	1.4kg
FX20EIPX4	2.0kW	267mm	250mm	131mm	1.4kg

Colour
White.

Installation
Two upper keyhole slots are provided together with a third fixing hole to secure the heater to the wall. The heaters are supplied without cable.

IP rating
FX models: IPX2. Product should be mounted at a minimum height of 600mm if installed in zone 3 of a location containing a bath or shower (BS7671: 2001 section 601).

FXIPX4 models: Splashproof IPX4 for bathroom use.

Electrical
All installations must be in accordance with current IEE wiring regulations.

Construction
Double insulated plastic case. Moulded in flame retardant self extinguishing grade nylon.

Safety protection
Manually resettable thermal overload cut-out and thermal fuselink provide double protection against overheating for any reason.

Model FX20V

The DTW range

Features

- Concealed heating system allows freedom of room design for maximum flexibility
- Safe and practical system helps dry spills quickly, avoiding slip ups in bathrooms and kitchens
- Early start function anticipates heat demand to ensure floor is heated for the correct time
- Feature packed controller offering 7 day programming over comfort and background temperature settings to suit every lifestyle
- Twin core 160W/m^2 cable on mat system
- Multiple mats can be connected as a system
- 3mm cable depth for minimum floor intrusion
- Maintenance free with low running costs
- Ideal for both new build and refurbishments
- Suitable for ceramic and natural stone floors
- Suitable for installation on either concrete or wooden sub floors
- 10 year guarantee on mats

Add a touch of luxury to your home by fitting Dimplex under-tile heating – perfect for taking the chill off cold tiled floors.

Ideal for kitchens, bathrooms, en suites or conservatories, under-tile heating provides radiant heat across the entire floor area, providing a feeling of warmth and comfort throughout the room.

Being concealed under the floor surface, under-tile heating also provides complete design freedom to plan rooms and arrange furniture with maximum flexibility.

A warm, tiled floor helps spills dry quickly, promoting a safer environment for all.

Available in a choice of seven easy to install packs with a separate thermostatic programmer.

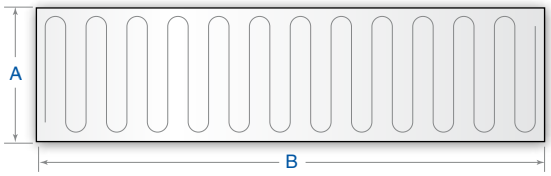
Controls

With intuitive design, self-learning functionality and accurate control, the Dimplex under-tile heating controller offers the perfect complement to a highly convenient heating system.

scan for more info
dimplex.co.uk/dtw

Technical information

Dimensions



Mat dimensions and loadings

Model	Output at 230V	Area	Element depth	Width A	Length B
DTW1M	160W	1.0m²	3mm	500mm	2000mm
DTW1.5M	240W	1.5m²	3mm	500mm	3000mm
DTW2M	320W	2.0m²	3mm	500mm	4000mm
DTW3M	480W	3.0m²	3mm	500mm	6000mm
DTW4M	640W	4.0m²	3mm	500mm	8000mm
DTW5M	800W	5.0m²	3mm	500mm	10000mm
DTW6M	960W	6.0m²	3mm	500mm	12000mm

Each mat comes with adhesive roll and instruction for installation.

Sizing guide

		Floor length					
		1m	1.5m	2m	3m	4m	5m
Floor width	1m	1 x DTW1M	1 x DTW1.5M	1 x DTW2M	1 x DTW3M	1 x DTW4M	1 x DTW5M
	1.5m	1 x DTW1.5M	1 x DTW2M	1 x DTW3M	1 x DTW4M	1 x DTW6M	1 x DTW6M + 1 x DTW1.5M
	2m	1 x DTW2M	1 x DTW3M	1 x DTW4M	1 x DTW6M	2 x DTW4M	2 x DTW5M
	3m	1 x DTW3M	1 x DTW4M	1 x DTW6M	3 x DTW3M	2 x DTW6M	3 x DTW5M
	4m	1 x DTW4M	1 x DTW6M	2 x DTW4M	2 x DTW6M	4 x DTW4M	4 x DTW5M
	5m	1 x DTW5M	1 x DTW6M + 1 x DTW1.5M	2 x DTW5M	3 x DTW5M	4 x DTW5M	5 x DTW5M

Note: Always choose heater packs that are slightly smaller than your requirement as only the mesh can be cut (Not the wire!) This chart is for illustrative purposes only.

Do not place under-tile heating under permanent fixtures (e.g. baths, kitchen cupboards).

Controller dimensions and loadings

Model	Electrical rating	Accuracy	Width	Height	Depth	Total depth
DTW16S	15A	0.5°C	79mm	83mm	22mm	44mm

Always use a standard electrical junction box when connecting more than two mats.

Mat construction

- Twin core 160W/m² cable
- Fully screened for use in bathrooms or other wet areas
- Two layers of insulation for maximum cable life
- Easy to cut mesh backing that can be removed for small and awkward areas

Installation

The Dimplex under-tile heating mats can be fitted to:

- Timber suspended floors
- Concrete solid floors
- Dimplex strongly recommends the use of 10mm insulating tile backer board to maximise system performance

Electrical

- All installations should be carried out by a qualified electrician in accordance with the current wiring regulations
- All installations require an RCD (residual current device) for safe operation
- The Dimplex thermostatic controller has a maximum load of 15A
- Connecting more than two mats to a controller requires the use of a standard electrical junction box
- The Dimplex thermostatic controller comes complete with a floor sensing probe

The BFH range

Features

- Variable thermostat for selection of room temperature
- Maximum output of 2.4kW with switching for 800W and 1600W outputs
- Model BFH24BWST has integral controls for ease of installation
- Model BFH24BWSR is supplied with a remote switch panel, for positioning convenient to user
- Neon indicator glows when the unit is switched on
- Fan only option for cool air circulation
- All units are supplied with a choice of brown, white or stainless steel fascias to suit any plinth unit

Model BFH with stainless steel fascia

The BFH range has been designed to fit neatly and unobtrusively into fitted furniture, display units, fascias or false walls. These heaters are ideal for incorporating into plinths of kitchen or bedroom base units or shop display units.

Controls

All models

Thermostat control knob on front of heater with a temperature range of approximately 5°C to 30°C. Lowest setting provides frost protection level.

Remote control model

BFH24BWSR: Switch Panel – 13 amp fuse, double pole isolating switch, two single pole on/off switches controlling elements.

Integral control model

BFH24BWST: Built-in switches on heater fascia on/off, fan only. 3 heat settings. Neon indicator.

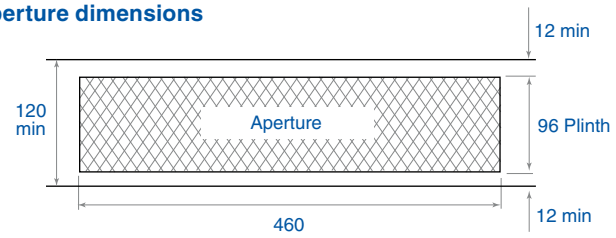
Model BFH with white fascia

scan for more info
dimplex.co.uk/bfh

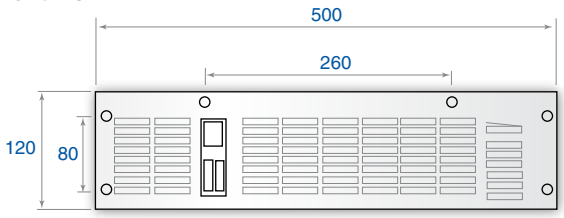
Technical information

Installation/dimensions (mm)

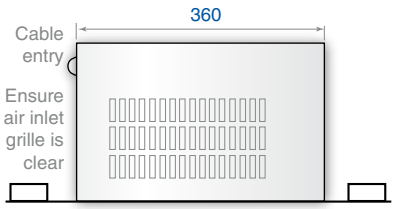
Aperture dimensions



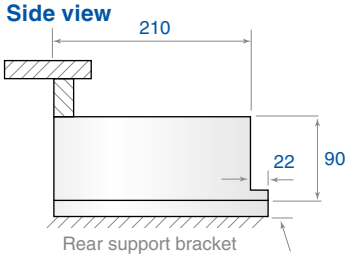
Front view



Plan



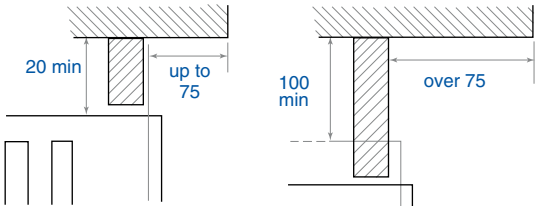
Side view



Note:
If fitted in corner with adjacent cupboards to right hand side of heater then a distance of at least 150mm must be maintained between the right hand end of the heater and the front of the adjacent cupboard door as shown.

All models

If the overhang above the heater is greater than 75mm, then a distance of at least 100mm must be maintained between the overhang and the uppermost part of the heater.



Switch panel remote control models

Installation

Minimum back box depth of 40mm is required behind fascia plate.

Colour/Finish

All units supplied with a choice of white, dark brown and stainless steel fascias.

Stainless steel fascia

Brown fascia

White fascia

Note: Above grille close ups are for colour reference only. For actual grille please refer to main photography.

Elements – all models

Fully strung, helically wound, 800W and 1600W combine to give 2400W maximum output.

Thermostat – all models

Bi-metal type, air temperature sensing.

Electrical connections

- Remote control model:
  2.5 metre 6 core colour coded cable is supplied for connecting the heater to the switch panel. The installer must supply suitable conduit or trunking if required and a surface or flush mounting box for the switch panel. A list of suitable standard boxes is supplied with the heater.
- Integral control model:
  Supplied with 2m, 3-core cable.

Thermal safety device

Interrupt supply to reset type.

The BUH range

Features

- Automatic low temperature cut-out thermostat
- Choice of low and boost settings
- Maximum output of 2.0kW (6824 Btu/h)
- Fan only option for cool air circulation (boost or normal speed)
- The BUH will heat a room much faster than a traditional radiator many times its size, but will not occupy valuable wall space
- Supplied with a choice of brown, white or stainless steel fascia to suit any plinth unit

Model BUH with stainless steel fascia

The hydronic BUH range is designed specifically for use on 'wet' heating systems. Small and compact, the BUH fits discreetly into the base of kitchen units, reception desks, shop counters and even stair risers.

Controls

Built-in single pole winter/summer switch and two position boost/low switch. Low temperature cut-out thermostat set at 38°C. Facility for fan only operation.

Colour/Finish

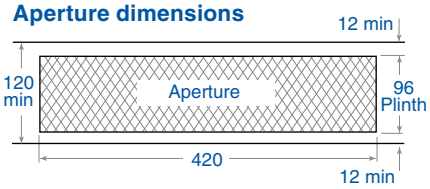
Supplied complete with a choice of stainless steel, powder coated brown or white finishes.

Connections

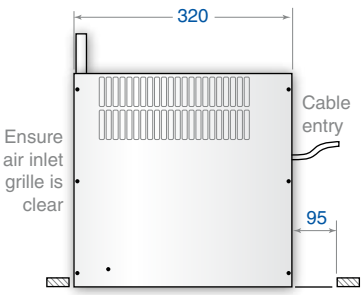
Pre-wired with 2m, 3-core electrical cable. Supplied with flexible hoses and isolating valves to connect the unit's copper pipes to the flow and return pipes of the central heating system.

Installation/dimensions (mm)

Aperture dimensions



Plan



See website for full details.

Model BUH with stainless steel fascia

scan for more info
dimplex.co.uk/buh

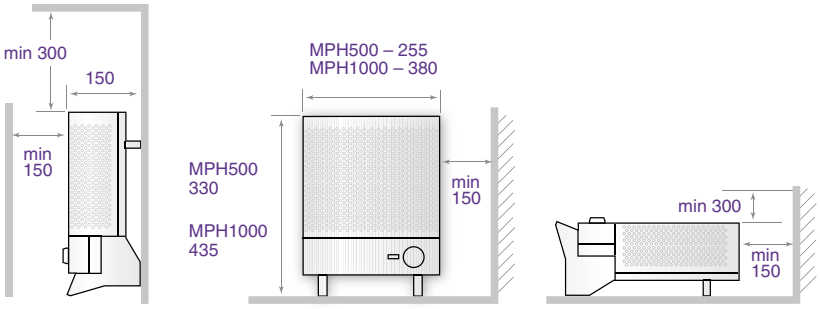
Model	Fan speed				Power	Water
	Normal		Boost		Consumption	Capacity
	(Btu/h)	Watts	(Btu/h)	Watts	Watts	20
BUH19B/W/S	4372	1280	6830	2000	31	0.2

Coldwatcher

Model MPH1000 and MPH500

These compact, durable heaters are purpose designed where reliable frost protection is required. Professionally tested against the British Standard for frost protection, they offer unrivalled 'peace of mind', and are suited to a wide range of applications including lofts, sheds, greenhouses and conservatories.

Dimensions and clearances (mm)



Features

- Energy saving thermostatic control with frost protection
- 500W (MPH500) or 1000W (MPH1000) output
- Safe for use in wet areas (IPX4)
- Freestanding or wall mounting
- Neon mains indicator
- 1.8m cable and plug supplied as standard

Technical specifications

Colour/Finish

Willow white and birch grey trim.

Construction

- Rugged and long lasting steel construction

Safety Protection

- Professionally tested for frost protection to BS EN60675:1995
- Supply interrupt and safety cut-out

Frostwatcher

This simple to use heating appliance is suitable for areas where a heating solution may not already be in place, yet a low level of heat is required to maintain a comfortable environment, such as garages/workshops, conservatories or sheds.

Technical specifications

Colour/Finish

Light grey/white aluminium finish.

Installation

Two keyhole slots are provided together with a third fixing hole to secure the heater to the wall. Supplied without a plug.

Construction

Double insulated plastic case moulded in flame retardant, self extinguishing grade nylon.

Safety Protection

Manual thermal overload cut-out.

Model FW600

Model	Loading	Height	Width	Depth	Weight
FW600	600W	240mm	259mm	121mm	1.12kg

Features

- Thermostatic control with frost protection setting
- Mains on neon indicator
- IP20 rated
- Wall mountable only
- Over heat protection

scan for more info
dimplex.co.uk/misc

The T range

Features

- Fully splashproof (IPX4 rated)
- Discrete wall/floor mounting brackets
- Optional interlinking kit
- Auto-reset thermal overload cut-out for safety
- Even heat distribution across heater body
- Complete with 1.5m of cable and fitted plug
- White body, grey ends and wall brackets
- Suitable for connection to time switch or thermostat

T range

The Dimplex T range of tubular heaters is ideal for applications which require safe, low-wattage background heating for frost protection or as window de-misters.

Model	Loading	Dimensions L x H x D	Minimum clearance to wall/floor	Minimum clearance above
T60W	60W	350mm x 96mm x 95mm	30mm	50mm
T120W	120W	655mm x 96mm x 95mm	30mm	50mm
T240W	240W	1265mm x 96mm x 95mm	30mm	50mm
T360W	360W	1875mm x 96mm x 95mm	30mm	50mm

The SCH5

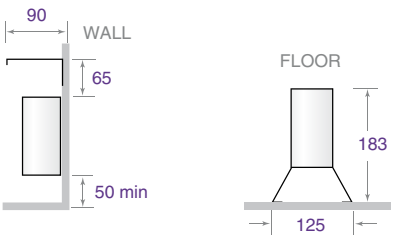
Features

- Can be connected end to end to provide greater output, using an accessory kit (CH0471)
- Suitable for freestanding or wall mounting (if not wall mounted it must be fitted with accessory feet – CH9101)
- Can be controlled via additional thermostats/timers
- Supply interrupt safety cut-out as standard
- Finished in willow white
- Accessories:
  – Feet: CH9101
  – Linking kit: CH0471

Model SCH5

The SCH5 is a slim unobtrusive heater designed primarily for wall mounted use at skirting board level. Used individually these heaters provide limited background heating for a variety of applications such as utility rooms.

Clearances (mm)



Model	Loading	Height	Width	Depth*	Fixing dimension*
SCH5	500W	127mm	895mm	65mm	95mm x 753mm

*When wall mounted.

scan for more info
dimplex.co.uk/misc

The contrast range

Model DXC30FTi

Model DXC20

With a wide choice of models, Dimplex convectors are ideal for use in any room (except bathrooms) where there is no heating or heat is required unexpectedly.

Features

- Thermostatic control
- Range of models with outputs from 2kW – 3kW
- Unique forward facing grille designed for enhanced heat throw
- Integrated 24 hour timer*
- Freestanding or wall mountable
- DXC30FTi also features turbo boost for an extra heat boost
- Supplied with feet, wall brackets, cable and fitted plug
- 3 year guarantee
- Colour: white/graphite grey

*Model specific.

Model	DXC20	DXC20Ti	DXC30	DX30Ti	DXC30FTi
Loading	2kW	2kW	3kW	3kW	3kW
Thermostat	✓	✓	✓	✓	✓
Heat selection	✓	✓	✓	✓	✓
Timer	✗	✓	✗	✓	✓
Turbo	✗	✗	✗	✗	✓
Width wall mounted	575mm	575mm	695mm	695mm	695mm
Height without feet	350mm	350mm	350mm	350mm	350mm
Height with feet	418mm	418mm	418mm	418mm	418mm
Depth without feet	104mm	104mm	104mm	104mm	116mm
Depth when on feet	196mm	196mm	196mm	196mm	196mm
Width between wall mounting brackets	358mm	358mm	478mm	478mm	478mm
Weight (kg)	3.4	3.4	4.5	4.5	4.5

The LATITUDE® range

Model DXLAT75CW

This stylish low level convector heater has been designed to integrate seamlessly into any surrounding.

Features

- Thermostatically controlled
- 750W output
- Freestanding or wall mounted
- Unique '8' shaped design
- Mains neon indicator
- 3 year guarantee
- Colour: cream

Model	Loading	Height†	Width	Depth†	Weight
DXLAT75CW*	750W	250mm	850mm	120mm	3.0kg

*Whilst stocks last. †With feet.

scan for more info
dimplex.co.uk/convector

Portable fan heaters

For fast heat up over a localised area, these Dimplex fan heaters suit all needs.

Most feature:

- Choice of heat settings
- Thermostatic control (except MCF15R/B)
- 3 year guarantee (except DXSTG25* and MCF15R/B*)

Look out for advanced features including:

- Motorised oscillation (DXSTG25 and DXUC2LCD)
- Electronic climate control (DXGLO2, DXSTG25 and DXUC2LCD)
- Optiflame® effect (MCF15R/B)
- Unique LED ring-lit technology (DXGLO2)
- Fun Footie (DXDFB2) or Daisy (DXDA12) motifs

*One year only.

Model DXGLO2

Model Microfire MCFI5B

Model Studio G

Model Studio G

Model DXUC2LCD

Model DXUF30T

Model	Loading	Thermostat	Choice of heat settings	Mains neon	Cool blow	Dimensions (H x W x D)	Weight	Colour
Upright fan heaters								
DXUF20T	2kW	Y	Y	Y	Y	238 x 247 x 184mm	1.4kg	Light grey
DXUF30T	3kW	Y	Y	Y	Y	238 x 247 x 184mm	1.4kg	Light grey
DXGLO2	2kW	Y Electronic	Y	Y-LCD	Y	278 x 230 x 158mm	1.5kg	Black
DXUC2LCD	2kW	Y Electronic	Y	Y	Y	274 x 205 x 205mm	2.0kg	White
Studio G DXSTG25	2kW	Y Electronic	Y	Y-LED	N	825 x 263 x 263mm	4.4kg	Black
Microfire MCFI5R/B	1.5kW	N	Y	N	N	370 x 330 x 205mm	6.9kg	Red or Black
Flat fan heaters								
DXFF20TSN	2kW	Y	Y	Y	Y	114 x 253 x 245mm	1.2kg	White
DXFF30TSN	3kW	Y	Y	Y	Y	114 x 253 x 245mm	1.2kg	White
Daisy DXDAi2	2kW	Y	Y	Y	Y	114 x 253 x 245mm	1.2kg	Pink
Footie DXDFB2	2kW	Y	Y	Y	Y	114 x 253 x 245mm	1.2kg	White

scan for more info
dimplex.co.uk/fans

Model DXFF30TSN

Model Daisy DXDAi2

Model Footie DXDFB2

The Cadiz eco range

Model CDE3ECC

The Cadiz Eco range of oil free radiators offers the latest in innovative heating technology. Using unique micathermic heating technology, the Cadiz Eco heats a room 35% faster* than oil filled competitors and offers up to 30% energy saving.*

Twin micathermic elements can work together or independently – ideal when the heater is positioned against the wall, as the heat is not absorbed by the wall and energy is not wasted. Being oil free, the Cadiz Eco is highly manoeuvrable, being 45% lighter than competitor products, and is also more environmentally-friendly to recycle/dispose of than other traditional oil filled radiators.

Cadiz® eco

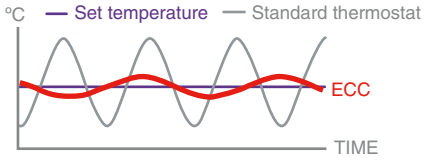
Controls

CDE2Ti

Variable thermostatic control and 24 hour programmable timer to enable daily heating needs to be programmed in advance. Manual override provides instant heat during an 'off' period without affecting the preset programmes.

CDE2ECC and CDE3ECC

Remote controlled electronic climate control, which enables the temperature to be set either by the LCD panel or remotely to within 1°C increments (5°C to 35°C). This type of thermostat is more accurate than traditional manual thermostats. ECC versions also have a programmable timer and clock function.



Electronic Climate Control (ECC)

Model	CDE2Ti	CDE2ECC	CDE3ECC
Loading	2kW	2kW	3kW
Height	605mm	605mm	605mm
Width	614mm	614mm	770mm
Depth	250mm	250mm	250mm
Weight	8.4kg	8.4kg	11.1kg

Features

- 35% faster warm up than oil filled radiators*
- 30% energy savings heating a room*
- Electronic climate control with highly accurate thermostatic control (can be set in 1°C increments from 5°C to 35°C)
- Built-in electronic 24 hour timer (CDE2ECC and CDE3ECC)
- 24 hour programmable timer (CDE2Ti)
- Independently operating heating elements (Mono/dual panel control)
- Range of models with outputs of 2kW or 3kW
- Backlit LCD display (CDE2ECC and CDE3ECC)
- Remote control (CDE2ECC and CDE3ECC)
- Integral cable tidy
- Easy glide castors
- 5 year guarantee

*Based on heating a room – speed of warm up 10°C to 22°C – range average – Glen Dimplex test laboratory results 2010.

Specification

Colour/Finish

White/light grey.

Cable/plug

All supplied with integral cable tidy so when the product is not in use the cable is hidden from view. Fitted with cable and 13 amp plug.

Safety protection

Overheat safety cut-out.

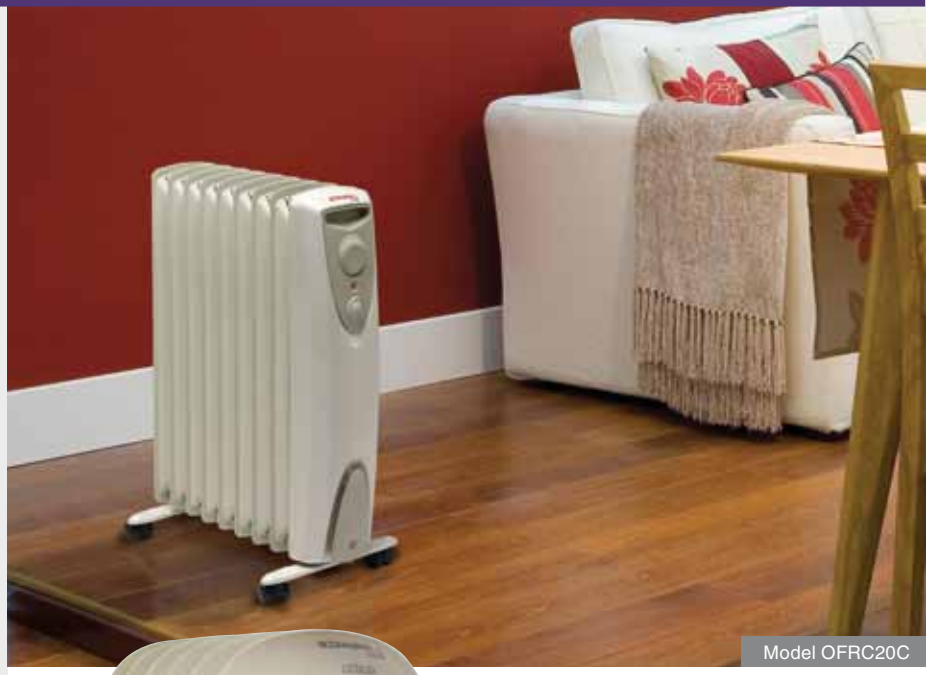
Assembly

No assembly required.

FIVE YEAR GUARANTEE 5 FIVE YEAR GUARANTEE

scan for more info
dimplex.co.uk/eco

The OFRC eco range



Model OFRC20C

Features

- Patented oil free technology offers 30% faster warm up and 25% energy savings*
- Variable thermostatic control
- 24 hour programmable timer (OFRC20TiC)
- Range of models with outputs of 0.7kW to 2kW
- Patented fin design (OFRC models) creates a balance of radiant and convected heat
- Lighter than equivalent output oil filled column radiators
- Thermostatically controlled with frost protection
- Choice of two heat settings on OFRC models
- On/Off switch
- Integral cable tidy on OFRC models
- Easy glide castors on OFRC models
- Oil free design makes them easy to recycle and kind to the environment
- 3 year guarantee

*Based on heating a room speed of warm up 10°C to 22°C, range average; Glen Dimplex test laboratory results 2010.

OFRB7

Thanks to their patented design these oil free heaters are not only 30% lighter than their oil filled alternatives they also offer 25% energy savings*.

In addition because they do not have any oil they are quiet running and there's no risk of leaks.

THREE YEAR GUARANTEE 3 THREE YEAR GUARANTEE

OFRC patented fin design

scan for more info
dimplex.co.uk/eco

Key specification

Controls

All models are provided with thermostatic control, OFRC models have twin heat settings and an on/off switch.

24 hour programmable timer

Model OFRC20TIN also has a 24 hour timer to enable daily heating needs to be programmed in advance.

Cable/plug

Supplied with a cable and fitted 13 amp plug.

Model	Loading	No. of fins	Height	Width	Depth	Weight
OFRB7	0.7kW	5	446mm	194mm	296mm	5.4kg
OFRC15C	1.5kW	7	622mm	370mm	280mm	7.9kg
OFRC20C	2kW	9	622mm	430mm	280mm	9.8kg
OFRC20TIN	2kW	9	622mm	430mm	280mm	9.8kg

OFC and OFX/MK1 ranges

Model OFC2000TI

Dimplex oil filled radiators are suitable for both domestic and commercial premises, providing a balance of convected and radiant heat, just like a conventional radiator, but with the added advantage of 'plug-in' portability.

With a totally enclosed heating element, the design is very safe, reliable and does not dry the air like some convection or radiant heaters.

THREE YEAR GUARANTEE 3 THREE YEAR GUARANTEE

Model specific.

Model OFX1000

Mk1 Model C412

Dimensions and loadings

Model	Loading	Heat settings	Timer	Thermostat	Height (mm)	Floor standing depth (mm)	Width (mm)	Weight (kg)
OFC Range								
OFC1500	1.5kW	2	N	Y	635	398	280	10.0
OFC2000	2.0kW	2	Y	Y	635	440	290	11.0
OFC2000TI	2.0kW	2	Y	Y	635	440	290	11.0
OFX Range								
OFX750, OFX750/TI	0.75kW	N/A	Y-TI	Y	500	230	741	9.5
OFX1000, OFX1000/TI	1.0kW	N/A	Y-TI	Y	586	230	854	12.9
OFX1500, OFX1500/TI	1.5kW	N/A	Y-TI	Y	670	230	1084	17.8
MK1 Range								
B48	0.75kW	N/A	N	Y	694	220	635	9.5
C412	1.0kW	N/A	N	Y	694	220	905	14.0
D416	1.5kW	N/A	N	Y	694	220	1170	18.5
E420	2.0kW	N/A	N	Y	694	220	1438	23.0

OFC range features

This range of oil filled column radiators offers the perfect solution to portable heating.

They are strong, robust and durable with smooth castors to enable easy movement about the room or from room to room as required. Each heater has thermostatic control and a choice of heat setting giving greater economy.

- Outputs of 1.5kW or 2kW
- Choice of heat settings, thermostat and integral humidifier
- 24 hour timer (OFC2000TI)
- Neon indicator
- Cord storage
- Tilt switch. Safety cut-out (auto re-set)
- Supplied with castors, cable and fitted plug
- Maintenance free design, sealed for life
- 3 year guarantee
- White finish
- Thermostatically controlled with frost protection
- TI models incorporate an electronic 24 hour timer

OFX/MK1 range features

These traditional 'panel' style radiators will offer many years' service. Choose from the original MK1 'dimple' design or the more modern OFX range.

- Energy efficient thermostatic control
- Safe, reliable and requires little or no maintenance
- Ideal for background or full heating
- Supplied with fittings for both floor standing and wall mounting
- Supplied with cable and fitted plug
- White finish
- Thermostatic control
- OFX models also available with 24 hour timer

Accessories – MK1 range

Castor wheels – ball type, set of four, Part No. RC0291.

Castor wheels, plastic, set of four, Part No. RC9000.

scan for more info
dimplex.co.uk/ofr

SLIMLINE HEATERS

The DXLWP range

Features

- Low wattage ensures the minimum energy consumption for low running costs
- Feet included for freestanding use
- Choice of heat settings*
- 24 hour programmable timer*
- On/Off switch
- 3 year guarantee
- Colour: white
- Overheat safety cut-out
- Freestanding or wall mounted

*TI models only.

scan for more info
dimplex.co.uk/dxlwp

Model DXLWP400

Designed to provide background heating to applications where space is at a premium and low running costs are important.

Model	DXLWP400	DXLWP400TI*	DXLWP800	ARLWP800TI*
Loading	400W	400W	800W	800W
Height	530mm	530mm	530mm	530mm
Width	600mm	600mm	800mm	800mm
Depth – freestanding	200mm	200mm	200mm	200mm
Depth – wall mounted	30mm	30mm	30mm	30mm
Weight	4.6kg	4.6kg	5.9kg	5.9kg

*Subject to availability.

INFRA-RED HEATERS

The IRX range

Features

- Choice of heat settings on IRX200N
- Designed to provide rapid beamed warmth
- All models have adjustable beam angle to direct heat where it's needed
- All models are IP24 rated meaning they are suitable for permanent installation internally or externally
- Pull-cord operation
- Silver grey finish
- 1 year guarantee

Model IRX120N

The IRX range of infra-red wall heaters is a safe, practical source of heat in bathrooms, kitchens, work areas – anywhere where fast localised heating is required.

Controls
Built-in double-pole pull-cord switch.

IP rating
All models are IP24 rated.

Elements
Spiral element(s) encased in transparent insulating silica sleeves.

Clearances
- 600mm to curtain
- 300mm to wall

Reflector
Angle adjustable on installation and lockable.

Model	Loading	Length	Height	Depth	Weight
IRX50N	0.5kW	764mm	114mm	92.5mm	2.0kg
IRX120N	1.2kW	764mm	114mm	92.5mm	2.0kg
IRX200N	2kW	764mm	114mm	92.5mm	2.1kg

scan for more info
dimplex.co.uk/irx

Optiflame® electric fires and suites

Model LYM28E Lymington

With a Dimplex electric fire you can enjoy the comfort and cosiness of a gas fire – but at the flick of a switch. Installation is easy as there are none of the cost and siting constraints associated with flue and gas connection, plus there is no requirement for annual servicing. Dimplex electric fires and suites also come complete with a fitted plug, and the products featured on this page simply fit flush against the wall. This is just a small selection of our wide range of fires and suites – please visit our website for further details.

Lymington

- Optiflame® coal effect
- 2kW radiant heat, plus 0.7kW convected heat
- 'Economiser' control
- Choice of heat settings
- Flame effect can be used independently of heat source (130W power consumption)
- Finished in matt black with brass effect trim
- Model LYM28E

Mozart

Mozart

- Freestanding suite with integral Optiflame® log fire
- Surround has stone effect finish with black marble effect panel
- 2kW fan heater with choice of heat settings
- Concealed controls
- Flame effect can be used independently of heat
- Choice of finishes:
  MZT20 – stone effect finish surround with black marble effect panel
  MZT20 BL – gloss black surround with black marble effect back panel

Mini Mozart

Mini Mozart

- Compact, freestanding suite with integral Optiflame® log fire
- Surround has white stone effect finish with dark marble effect back panel
- 1.5kW fan heater with choice of heat settings
- Flame effect can be used independently of heat
- Remote control
- Model MMZ15

Dimensions and loadings

Model	Total output kW	Height mm	Width mm	Depth
Lymington	2.7	690	720	275
Mozart	2.0	857	920	375
Mini Mozart	1.5	750	700	260

scan for more info
dimplex.co.uk/optiflame

Fuel effect fires

Optima
- Freestanding or wall mounted
- Attractive cherry finish surround
- 2kW of radiant heat
- Flickering flame coal effect
- Model 314CHE

Theme
- Attractive cherry finish surround
- Flickering flame coal effect
- 2kW of radiant heat
- 0.8kW convector with variable thermostat for background warmth
- Model 316CHE

Lyndhurst
- Stylish black canopy
- Flickering flame log effect
- 2kW of radiant heat
- 0.7kW of thermostatically controlled convected heat
- Model 430RCE/B

Yeominster
- Traditional design finished in black with brass effect detail
- 2kW radiant heat
- 2 heat settings
- Moulded log effect and flickering flame impression
- Model YEO20

Optima model 314CHE

Theme model 316CHE

Lyndhurst model 430RCE/B

Yeominster model YEO20

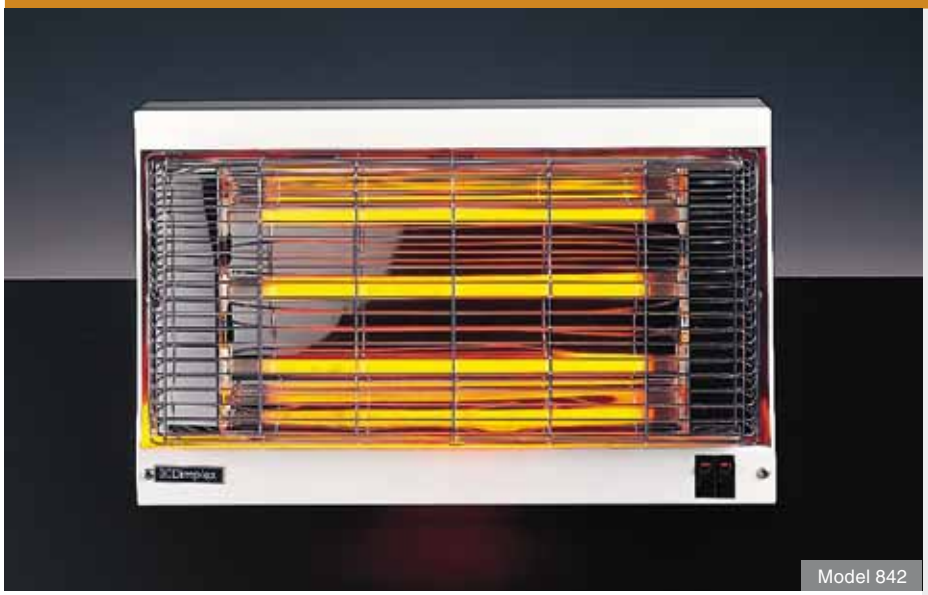
Our range of fuel effect fires is ideal for contracts or for someone looking for a more traditional design.

Dimensions and loadings

Model	Total output	Width	Height	Depth	Wall mounted/ Free-standing
Optima 314CHE	2.0kW	775mm	540mm	215mm	Wall mounted/ Freestanding
Yeominster YEO20	2.0kW	631mm	395mm	214mm	Freestanding
Lyndhurst 430RCE/B	2.7kW	710mm	680mm	225mm	Freestanding
Theme 316CHE	2.8kW	775mm	610mm	265mm	Freestanding

scan for more info
dimplex.co.uk/fueleffect

The Studio range



Features

- Choice of three models
- Wall mounted
- Warming fire glow illumination even when heating elements are switched off
- Three heat settings available on all models
- Choice of models with 2kW or 3kW output
- Choice of styles: Model 842 in white, 842S and 843S with a wood effect surround
- Permanent secure wall mounting

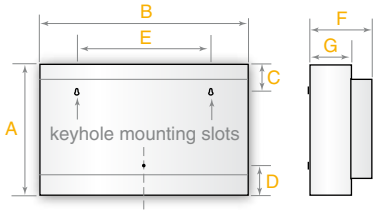
These fires provide a comfortable source of instantaneous radiant heat just like the warmth of the sun.

Dimensions and loadings

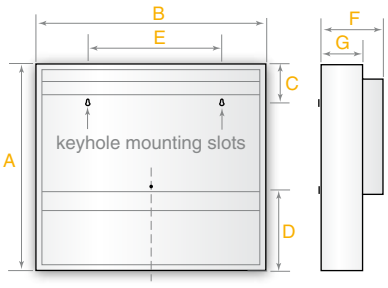
Model	Output (elements)	Output (effect)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Weight
842	1980W	60W	290	470	53	52	305	140	95	5kg
842S	1980W	120W	470	505	90	190	305	140	95	7.5kg
843S	3000W	120W	470	810	90	190	610	140	95	10.8kg

Dimensions and fixing positions (mm)

Model 842

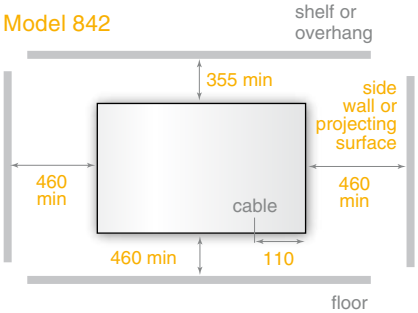


Models 842S, 843S

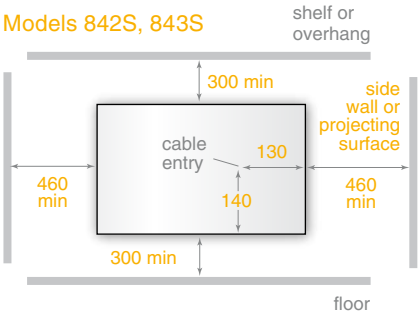


Clearances

Model 842



Models 842S, 843S



Model 842S

scan for more info
dimplex.co.uk/studio

The AC range

Model AC3N

Features

- Twin heat settings and fan only mode help match output to changing heating demands, keeping a check on energy use
- Recessed model with wall mounted controller and ceiling grille included (AC3CN)
- Handheld remote control model for extra convenience (AC3RN)
- Can be used as a high-level fan heater (AC3CN)
- Adjustable airflow on AC3N, AC3RN, AC45N and AC6N
- Model AC3CN comes as standard with wall control over full heat, half heat and fan only settings
- Model AC3N can be used with or without aluminium ceiling grille

Bringing modern styling to the ever popular Dimplex AC range, these over door heaters provide powerful and effective heating above entrances to shops, offices and almost any small doorway.

Because they warm the door entrance area, they often allow doors to remain open for longer, promoting increased business, and can equally be used as high-level fan heaters where the need arises.

For extra convenience the AC3RN model gives remote control operation and a recessed model AC3CN is available for installation in suspended or plaster ceilings where ‘hidden’ installation is required.

Model AC6N

Controls

AC3N, AC45N and AC6N

Integrated control over full heat, half heat or fan only modes.

AC3RN

Controls as above with additional wireless control over on/off switching via handset included. Maximum range 8m.

AC3CN

Remote control via supplied wall mounted controller over full heat, half heat and fan only operation (no cable supplied).

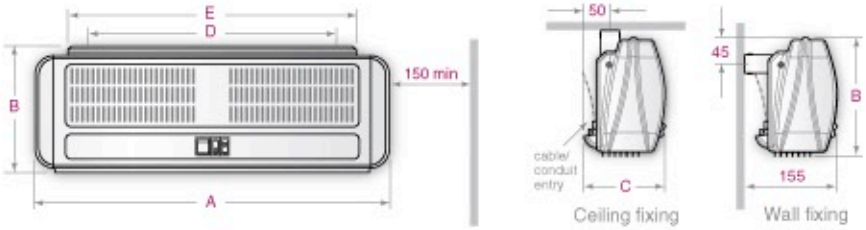
Model AC3CN recessed

scan for more info
dimplex.co.uk/ac

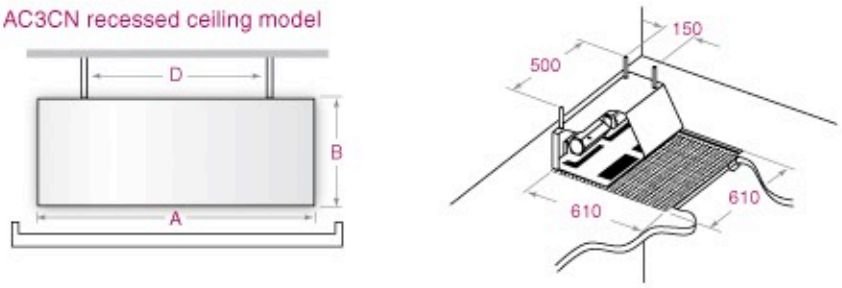
Technical information

Main and fixing dimensions (mm)

AC3N, AC3RN, AC45N and AC6N surface models



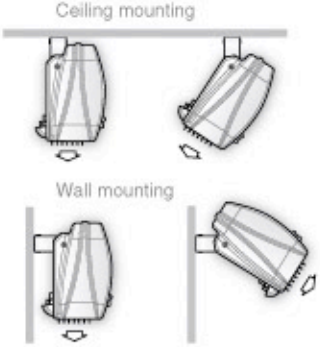
AC3CN recessed ceiling model



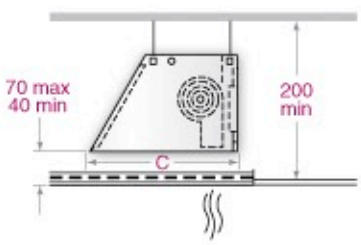
Model	AC3N	AC3RN	AC45N	AC6N	AC3CN (recessed)
Max recommended mounting height	2.3m	2.3m	2.3m	2.3m	2.3m
Outputs	1.5kW/3.0kW	1.5kW/3.0kW	2.25kW/4.5kW	3.0kW/6.0kW	1.5kW/3.0kW
Voltage	230V~1pn	230V~1pn	230V~1pn	230V~1pn	230V~1pn
Noise dB (A)†	50.5	50.5	52.0	57.0	52.0
Air volume m^3/h	$212m^3/h$	$212m^3/h$	$248m^3/h$	$446m^3/h$	$175m^3/h$
Max air speed m/s*	5.0	5.0	5.0	5.5	3.2
Length (A)	605mm	605mm	605mm	905mm	595mm
Height (B)*	200mm*	200mm*	200mm*	200mm*	184mm
Depth (C)	135mm	135mm	135mm	135mm	295mm
Weight	5.1kg	5.3kg	5.2kg	7.2kg	8.7kg
Fixing points (D)	424mm	424mm	424mm	721mm	500mm
Bracket length (E)	492mm	492mm	492mm	788mm	–
Approvals			BEAB		

*Effective airflow with cover fitted. *Add 14mm for total installed height (not AC3CN).
†Measured 3m from the product, outside the airstream.

AC3N, AC3RN, AC45N and AC6N surface models



Recessed AC3CN ceiling model



Construction/Finish

1 AC3N, AC3RN, AC45N and AC6N
Pressed steel case with ABS end caps finished in durable white with contrasting switches.

2 AC3CN
Pressed steel heater with mounting brackets and white grille. An additional aluminium egg crate grille is also provided for suspended ceilings.

Technical – all models

All models use high power tangential blower units and effective wire stitched elements.

Installation

1 AC3N, AC3RN, AC45N and AC6N
Designed for wall or ceiling installation.

2 AC3CN
Designed for flexible installation options as follows:

- 600 x 600mm drop-rod installation into plaster or suspended ceilings
- 300 x 600mm drop-rod installation into plaster or suspended ceilings
- 600 x 600mm direct fixed to ceiling
- 300 x 600mm direct fixed to ceiling
- 300 x 600mm bulkhead fixing

Electrical connection

No cable supplied, designed for permanent connection to the fixed wiring of the premises through an adjacent double pole switch or conduit connection.

Safety protection

2 x manual reset cut-outs.

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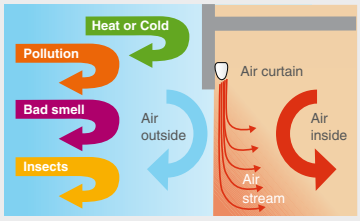
HELPS WITH CRC EES SCHEME

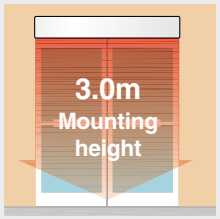
The CAB range

Features

- Surface and recess models
- Electric, water and ambient models available
- Modular design for wide entrances
- Electronic control system
- Easy-fit bracket included as standard
- Adjustable air discharge*
- Reversible water coils
- Auto door mode
- BEMS/BMS connectivity
- Temperature regulation*
- HVAC interlock
- Dual door control*

*Model specific





Recessed unit

Model CAB20E

NEW LPHW & ambient models

A comprehensive range of electronically controlled air curtains suited to commercial applications. The CAB range provides a powerful curtain of air across an open door to prevent warm or cool air escaping, minimising energy costs whilst maximising comfort and convenience. All models can be joined together and operated from one controller for maximum flexibility.

Model	Max airstream width	Air volume	Heat output	Dimensions (mm) L x H x D	Weight
Surface mounted					
Electrically Heated					
CAB10E	1.0m	1200m³/h	4.5/9.0kW	1065 x 262 x 321	20.5kg
CAB15E	1.5m	1800m³/h	6.75/13.5kW	1569 x 262 x 321	29.0kg
CAB20E**	2.0m	2400m³/h	9.0/18.0kW	2130 x 262 x 321	41.0kg
Water heated (at 82/71°C – LPHW)					
CAB10W	1.0m	1100m³/h	9.0kW	1065 x 262 x 321	18.0kg
CAB15W	1.5m	1700m³/h	13.5kW	1569 x 262 x 321	24.5kg
CAB20W**	2.0m	2200m³/h	18.0kW	2130 x 262 x 321	36.0kg
Ambient and cold store					
CAB10A	1.0m	1200m³/h	n/a	1065 x 262 x 321	15.5kg
CAB15A	1.5m	1800m³/h	n/a	1569 x 262 x 321	21.5kg
CAB20A**	2.0m	2400m³/h	n/a	2130 x 262 x 321	31.0kg

**Comprises two units.

Recess mounted

Electrically heated					
CAB10ER	1.0m	1200m³/h	4.5/9.0kW	1224 x 267 x 639	26.0kg
CAB15ER	1.5m	1800m³/h	6.75/13.5kW	1724 x 267 x 639	35.0kg
CAB20ER**	2.0m	2400m³/h	9.0/18.0kW	2450 x 267 x 639	54.5kg
Water heated (at 82/71°C – LPHW)					
CAB10WR	1.0m	1100m³/h	9.0kW	1224 x 267 x 639	26.0kg
CAB15WR	1.5m	1700m³/h	13.5kW	1724 x 267 x 639	35.0kg
CAB20WR**	2.0m	2200m³/h	18.0kW	2450 x 267 x 639	54.5kg
Ambient and cold store					
CAB10AR	1.0m	1200m³/h	n/a	1224 x 267 x 639	26.0kg
CAB15AR	1.5m	1800m³/h	n/a	1724 x 267 x 639	35.0kg
CAB20AR**	2.0m	2400m³/h	n/a	2450 x 267 x 639	54.5kg

**Comprises two units.

scan for more info
dimplex.co.uk/cab

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The DAB range

Model DAB15ER

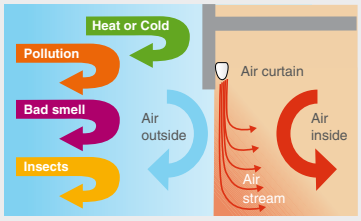
Designed to suit larger commercial entrances or installations requiring a more powerful air curtain, the DAB range has all the features of the smaller CAB range with uprated performance for mounting up to 4m from the floor. With high power motors and electronic control, these air curtains are built to provide maximum overage at the door whilst minimising energy used through adjustable controls. They can be controlled individually or from one point as a system of air curtains together.

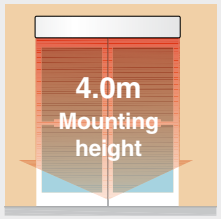
NEW Recessed range

Features

- Surface and recess models
- Electric, water and ambient models available
- Modular design for wide entrances
- Electronic control system
- Easy-fit bracket included as standard
- Adjustable air discharge*
- Reversible water coils
- Auto door mode
- BEMS/BMS connectivity
- Temperature regulation*
- HVAC interlock
- Dual door control*

*Model specific.





Model	Max airstream width	Air volume	Heat output	Dimensions (mm) L x H x D	Weight
Surface mounted					
Electrically heated					
DAB10E	1.0m	3000m³/h	6.0/12.0kW	1057 x 360 x 390	26.5kg
DAB15E	1.5m	4000m³/h	9.0/18.0kW	1557 x 360 x 390	35.0kg
DAB20E**	2.0m	6000m³/h	12.0/24.0kW	2114 x 360 x 390	53.0kg
Water heated (at 82/71°C – LPHW)					
DAB10W	1.0m	2500m³/h	12kW	1057 x 360 x 390	25.0kg
DAB15W	1.5m	3500m³/h	18kW	1557 x 360 x 390	32.0kg
DAB20W**	2.0m	5000m³/h	24kW	2114 x 360 x 390	50.0kg
Ambient and cold store					
DAB10A	1.0m	3000m³/h	n/a	1057 x 360 x 390	21.5kg
DAB15A	1.5m	4000m³/h	n/a	1557 x 360 x 390	27.5kg
DAB20A**	2.0m	6000m³/h	n/a	2114 x 360 x 390	43.0kg

**Comprises two units.

Model DAB10E

Recess mounted

Electrically heated					
DAB10ER	1.0m	3000m³/h	6.0/12.0kW	1224 x 337 x 667	31.5kg
DAB15ER	1.5m	4000m³/h	9.0/18.0kW	1724 x 337 x 667	43.0kg
DAB20ER**	2.0m	6000m³/h	12.0/24.0kW	2450 x 337 x 667	63.0kg
Water heated (at 82/71°C – LPHW)					
DAB10WR	1.0m	2500m³/h	12kW	1224 x 337 x 667	31.5kg
DAB15WR	1.5m	3500m³/h	18kW	1724 x 337 x 667	43.0kg
DAB20WR**	2.0m	5000m³/h	24kW	2450 x 337 x 667	63.0kg
Ambient and cold store					
DAB10AR	1.0m	3000m³/h	n/a	1224 x 337 x 667	31.5kg
DAB15AR	1.5m	4000m³/h	n/a	1724 x 337 x 667	43.0kg
DAB20AR**	2.0m	6000m³/h	n/a	2450 x 337 x 667	63.0kg

**Comprises two units.

scan for more info
dimplex.co.uk/dab

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HELPS WITH CRC EES SCHEME

The IAB range

Model 2 x IAB15W

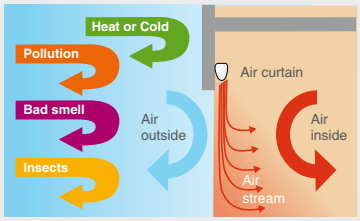
Features

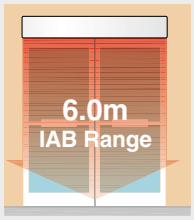
- Electric, water and ambient models available
- Modular control system (up to 10 linked units) to be controlled as one
- High power centrifugal blowers for large air movement
- Electronic control system
- Auto door mode
- BEMS/BMS connectivity

A range of air curtains designed for industrial applications and areas where the highest performance is required to protect the open door.

With highly durable components offering long life and maintenance free operation, these units can be specified with confidence and trouble free long service in mind.

Often found in large warehouses, factories and distribution centres, these super high power air curtains can cut running costs of a busy facility considerably, while improving the working environment too.





	Electrically heated		Water heated (at 82/71°C – LPHW)		Ambient and cold store	
Model	**IAB10E**	**IAB15E**	**IAB10W**	**IAB15W**	**IAB10A**	**IAB15A**
Max door width	1.0m	1.5m	1.0m	1.5m	1.0m	1.5m
Max mounting height	6m					
Height	700mm					
Length	1100mm	1600mm	1100mm	1600mm	1100mm	1600mm
Depth	600mm					
Weight	80kg	120kg	80kg	120kg	80kg	120kg
Heat output	12/24kW	18/36kW	27kW	41kW	n/a	n/a
Voltage	400V~3PN	400V~3PN	230V~1PN	230V~1PN	230V~1PN	230V~1PN
Supply rating (A)*	41.0	61.0	6.0	9.0	6.0	9.0
Noise dB (A)** (high/low airflow)	70/62	73/63	70/62	73/63	70/62	73/63
Air volume m^3/h	4500	6900	4500	6900	4500	6900
Max airflow m/s	18					

*Amps per phase. **Measured 3m from product, outside airstream.

NOW AVAILABLE FOR CONNECTION TO LOW WATER TEMPERATURE SYSTEMS

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LOWERS CARBON EMISSIONS

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HELPS WITH CRC EES SCHEME

The ARC range

Model ARC20E

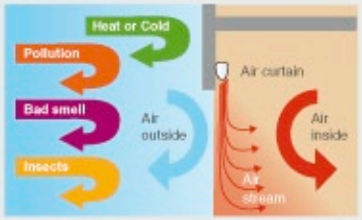
Features

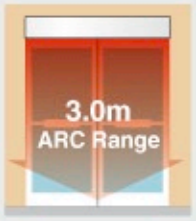
- Models for 3m horizontal, 4m horizontal or vertical mounting
- Electric, water and ambient models available
- Choice of finish including stainless steel
- Low water temperature system compatible
- Electronic control system as standard
- Auto door mode
- BEMS/BMS connectivity
- Multiple units can be linked together as a system and operated from the controller supplied as standard.

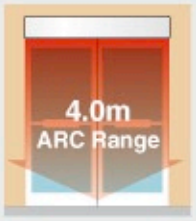
Designed to be at home in the most prestigious corporate entrances and reception areas, the ARC range of architectural air curtains suits the most exacting requirements of modern design.

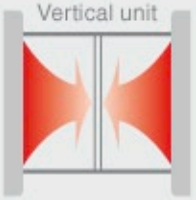
Offered for installation above the door or either side as vertical units, they can be supplied to bespoke requirements. Finished to a high standard in either brushed stainless steel, mirror polished stainless steel or coloured to customer preference.

Now available arc 3m & 4m range









Model	ARC10	ARC15	ARC20
	Max horizontal mounting 3.0m or 4.0m		
Length*	1200mm	1700mm	2200mm
Height*	450mm	450mm	450mm
Depth*	360mm	360mm	360mm
Weight*	55-65kg	82.5-95kg	110-130kg
Finish*	Brushed or polished stainless steel/colour coded		

***SAMPLE DIMENSIONS ONLY:** Please call us for full technical details and to arrange for further discussion with your Dimplex representative.

scan for more info
dimplex.co.uk/arc

The CFH range

Model CFH90

Features

- Digital central control system gives close time and temperature control for optimised energy usage
- Built-in electronic control system for operation over 10 heaters (maximum)
- Accurate digital temperature control
- 7 day timer/programmer
- Fan and heat level control*
- Powerful centrifugal blowers for effective performance
- Fan overrun facility for maximum heater efficiency
- Easy install 'plug and play' heater connections
- Multi-directional wall mounting brackets
- Heavy duty corrosion resistant case

*All CFH models are controlled via the additional digital CFCH Controller.

A range of rugged, high power electronic fan heaters designed to offer a full heating system to larger industrial environments, these wall mounted heaters use powerful centrifugal blowers for a faster airflow in the most challenging of environments.

Offered in 6kW, 9kW or 12kW, the CFH range can be controlled individually or as a system of heaters with the additional wall mounted digital remote (CFCH), with cool blow, heat output and thermostatic control available.

All models in the range can be simply linked together using CAT 5e data cable, and have multi-directional wall mounting brackets for the ultimate in ease of installation and control.

Controls

The CFCH controller is the hub of the system. With accurate electronic heat control, a full 7 day timer and programmer with a selectable 5 hour run-back feature for flexibility of use.

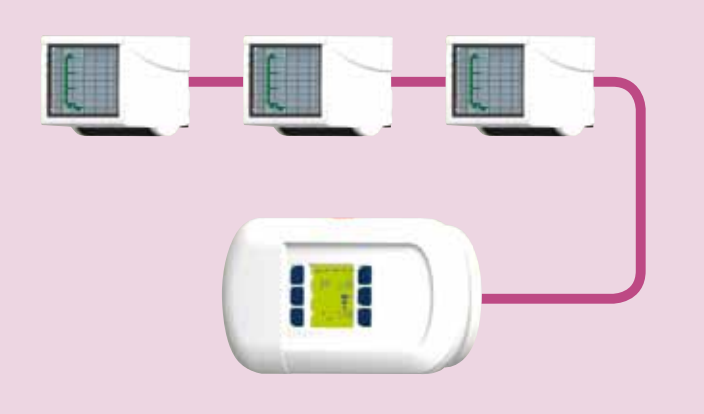
Model CFH120

scan for more info
dimplex.co.uk/cfh

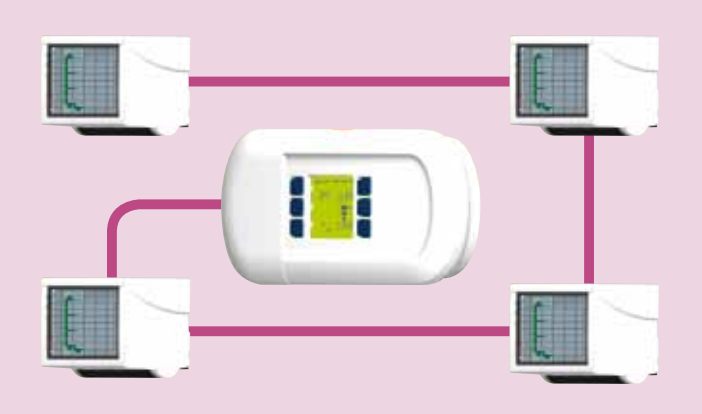
Model	Max no. heaters	Heater communication	Supply	Height A	Width B	Depth
CFCH	10	CAT 5e data cable LV signals	220-240V~1PN	113mm	217mm	49mm

Technical information

Installation options – system design

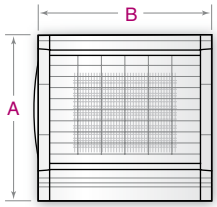


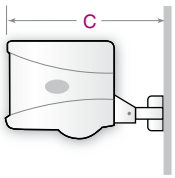
By grouping units together a large output can be gained in a single area.

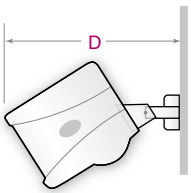


By spacing units throughout the building, a centrally controlled heating system is possible.

Heater dimensions







Construction/Finish

Corrosion resistant body with durable finish colour matched to the CAB and DAB air curtain. Finned/sheathed heating elements with rigid steel outlet grille vanes to direct airflow. Colour: White casing with black grille.

Controls

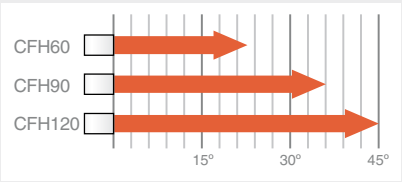
No onboard controls.

All CFH models are controlled via the additional CFCH controller.

Safety

Manual reset cut-out.

Air temperature rise from CFH models



Installed range – electronic units

Model	Output	Supply	Airflow	Throw	Noise level	Air-off temp*	Height A	Width B	Depth C	Max depth D	Weight
CFH60	6kW	220-240V~1PN 380-415V~3PN	900m³/h	10m	55dB(A)	40°C	360mm	386mm	565mm	630mm	13.5kg
CFH90	9kW	220-240V~1PN 380-415V~3PN	900m³/h	10m	60dB(A)	55°C	360mm	386mm	565mm	630mm	14.5kg
CFH120	12kW	220-240V~1PN 380-415V~3PN	900m³/h	10m	60dB(A)	65°C	360mm	386mm	565mm	630mm	14.5kg

*Calculated at 21°C.

The CF range

Features*

- Cool blow, half heat and full heat settings
- Integral thermostat
- Remote wall mounted heater control (CFS range)
- Single or three phase connection (CFS60 only)
- Multi-directional wall bracket (CFS range)

Construction*

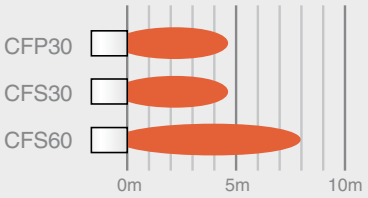
- Heavy duty corrosion resistant case
- Rugged styling with 'chunky' go-anywhere appearance and striking two-tone finish (CFP30)

Safety

- Electrical reset cut-out (CFS30, CFP30)
- Manual reset cut-out (CFS60)

*Model specific.

Airflow performance



Model CFS30

A range of robust fan heaters suited for general purpose commercial and light industrial use.

CFS30 and CFS60

The CFS wall mounted models are offered in either 3kW or powerful 6kW versions. They come supplied with a separate wall mounted heater control switchplate for all functions, and use a standard double pattress back box for ease of installation.

CFP30 mobile heater

The CFP30 mobile heater is supplied with a rugged floor stand and handle, and has integral thumbwheel control over heat settings, cool blow and thermostatic temperature control.

Model CFP30

Model	Output kW	Supply	Airflow	Throw m	Noise level	Air-off Temp#	Height	Width	Depth	Weight kg
CFS30*	3	220-240V~1PN	400m³/h	4.5	37dB(A)	35°C	262	306	495	7.6
CFS60*	6	220-240V~1PN 380-415V~3PN	750m³/h	8.0	50dB(A)	45°C	360	386	565	13.5
CFP30	3	220-240V~1PN	400m³/h	4.5	37dB(A)	35°C	448	372	347	7.6

*Controller included. #Calculated at 21°C.

scan for more info
dimplex.co.uk/cf

The PFH range

Model PFH30

Features

- Thermostatic control standard on all models
- Curved heater design with low noise performance
- Designed for wall mounting between 1.8m-2.3m from floor
- Multi-directional wall bracket giving 40° vertical and 120° horizontal adjustment
- Single screw angle adjustment
- Remote control supplied as standard with thermostat and full heater control*
- All models have cool blow 'air circulation' setting
- Grey finish

*Model specific.

Perfect for use in garages, workshops, offices, store rooms or almost any small commercial situation, these heaters provide an effective and economical heating solution. The PFH30 has all controls on board while the PFH30R has a wall mounted controller included.

Model	PFH30	PFH30R
Heat output	3.0kW	3.0kW
Voltage	230V~1PN	230V~1PN
Airflow m^3/h	200	200
Noise dB (A)*	24	24
Max air temp**	58°C	58°C
Thermostat	5°C-35°C	5°C-35°C
Height	378mm	378mm
Width	230mm	230mm
Depth	226mm	226mm
Weight	1.3kg	1.6kg
Approvals	BEAB	

*Measured at 1m. **Measured at 0.5m.

Models PFH30 and PFH30R

scan for more info
dimplex.co.uk/pfh

The OPH range

Model OPH20

Features

- High quality aluminium case finished in two-tone silver
- 1.3kW Quartz infra-red model
- 2.0kW Quartz halogen model with 'gold' lamp for extended performance
- Designed and rated for permanent external installations
- Instant heat – avoiding the need for expensive pre-heating
- Costs as little as 17p per hour† to run
- 'In-situ' lamp replacement for minimum downtime
- Fitted guard included
- Optional mounting kit for hanging or pole/mast mounting (OPHMK1)
- Approvals: CE, IP24

†Dependent on tariff.

Construction

Aluminium case with specular quality, electrochemically brightened aluminium reflector and fitted chromium plate mild steel guard.

Elements

OPH13 – Quartz infra-red spiral element in transparent silica sleeve.

OPH20 – Quartz halogen gold coated tungsten element in glass sleeve.

With a high quality aluminium case and a choice of outputs, these outdoor patio heaters provide long lasting performance with an attractive modern design, perfect for outdoor dining areas or heating for smokers!

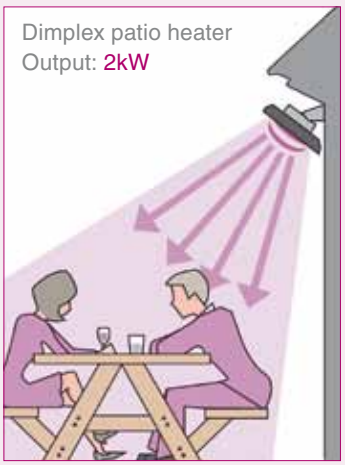
They save energy compared to a gas patio heater and can be used with PIR sensors, touch sensors or push switches for the lowest running costs.

Model	OPH13	OPH20
Heat output	1.3kW	2.0kW
Supply	230V~1PN	230V~1PN
Dims (H x W x D mm)	159 x 594 x 144	159 x 594 x 144
Element	Infra-red	Halogen
Min mounting height	1.8m	1.8m
Rec mounting height	2.0-2.3m	2.0-2.3m
Heat throw at 2m mounting height*	1.7m	2.0
Heat spread at 2m mounting height*	3.0m	3.5

*Heater mounting angle 45° giving 160W/m² output.

Model OPH13

scan for more info
dimplex.co.uk/oph



Direct efficient heating

Wasteful inefficient heating

The QXD range

Model QXD3000

Quartz heaters are the energy efficient choice for heating areas where it would not be practical or cost effective to raise the overall ambient temperature. Used with auto controls, they provide a low cost heating solution for hard to heat zones.

Model	Input loading	Number of lamps	Electrical supply*	Height	Length	Depth (inc. bracket)
QXD1500	1.5kW	1	230-240V~1PN	256mm	440mm	310mm
QXD3000	3.0kW	2	230-240V~1PN	380mm	440mm	310mm
QXD4500	4.5kW	3	230-240V~1PN	506mm	440mm	310mm

Model	Weight in kg	Minimum height	Recommended height#	Lamp guard	Product guard
QXD1500	3.7kg	2.1mm	2.5mm	QX9310	**
QXD3000	4.3kg	2.5mm	3.5mm	QX9311	**
QXD4500	5.8kg	3.0mm	4.0mm	QX9312	**

* Where used, a type 3 or 'C' MCB with a tripping co-efficient of 7-10 times rated current should be used.
# Calculated at medium intensity (95W/m^2).
**Available from Aiano on (Tel) 020 7987 1184 email: sales@aianos.co.uk website: www.aianos.co.uk

Features

- Ruby sleeved halogen lamp for warm red glow
- Compact dimensions with universal mounting bracket
- IPX4 rated for indoor or outdoor use
- Can be used with PIR passive sensors, touch sensors and push switches for auto control
- Silent operation
- Energy efficient – only heats the area that needs heating, not the whole building

Construction

- Powder coated steel case finished in high temperature matt black
- Spectacular quality electrochemically brightened aluminium
- Halogen lamp incorporating Tungsten element

Instant heat – where it's needed

- By producing a highly directional beam of heat (just like the Sun), these heaters only use the minimum energy needed to heat the chosen area without waste.
- The short wavelength at which the heater emits energy ensures maximum effect is felt instantly, making them perfect for infrequently used areas or where pre-heating a whole building is impractical
- Additional auto controls make these heaters economical for 'zone' heating within factories and warehouses, and for 'on demand' heating in community halls and public buildings where usage may be unpredictable
- Radiant heat effect allows high heat-loss buildings to be heated

QXD range

scan for more info
dimplex.co.uk/qxd

The CXD range

Features

- Provides heat to a zone or localised area, saving energy compared with equivalent air heaters
- Silent operation
- No visible light output
- Adjustable mounting bracket
- Can be mounted inside or outside
- Fitted guard included
- Choice of vertical or horizontal 2kW models
- Robust ceramic elements for efficient radiant heating
- Can be used with PIR passive sensors, touch sensors and push switches for auto control

Elements

Ceramic encased aluminium elements.

Colour/Finish

Powder coated steel. Finished in high temperature matt black.

Electrical Connection

Where used, a type 3 or 'C' MCB with a tripping coefficient of 7-10 times rated current should be used.

IPX4 rated for outdoor use.

Model CXD2000V

Using long-wave infra-red technology, these brand new radiant heaters use ceramic elements to radiate heat with no distracting light output.

Perfect where robust radiant heating is required, these heaters provide a heating effect just like the sun, and can be connected to push switches and PIR sensors for energy saving operation.

Offered in vertical (2 x elements stacked) or horizontal (2 x elements side to side) formats, these 2kW models are ideal 'people heaters' without the light output of other radiant heaters.

Model CXD2000H

scan for more info
dimplex.co.uk/cxd

Specifications and dimensions

Model	Input loading	Number of lamps	Electrical supply	Height	Length	Depth (inc. bracket)
CXD2000V	2.0kW	2	230-240V~1PN	380mm	442mm	302mm
CXD2000H	2.0kW	2	230-240V~1PN	255mm	735mm	248mm

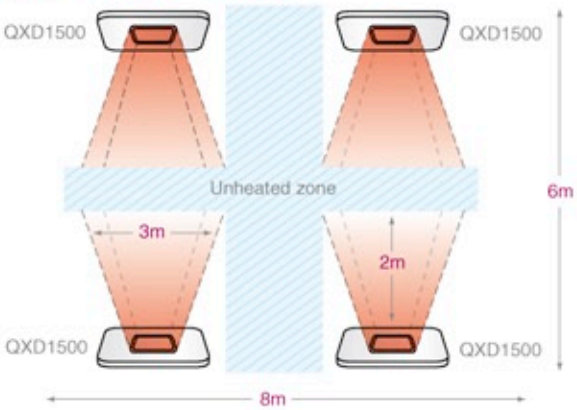
Model	Weight in kg	Minimum height	Recommended height*	Lamp guard	Product guard
CXD2000V	5.35kg	1.8m	2.0m	✓	–
CXD2000H	5.1kg	1.8m	2.0m	✓	–

*Calculated at medium intensity (95W/m^2).

Positioning, coverage and throw

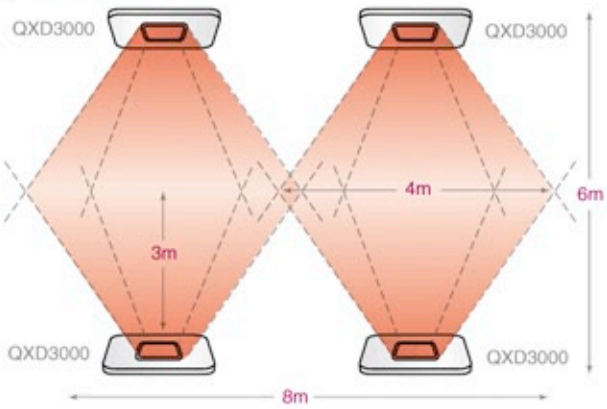
QXD and CXD ranges

Incorrect positioning



Heaters must be installed so they overlap heated areas and heat from both sides for optimum effect.

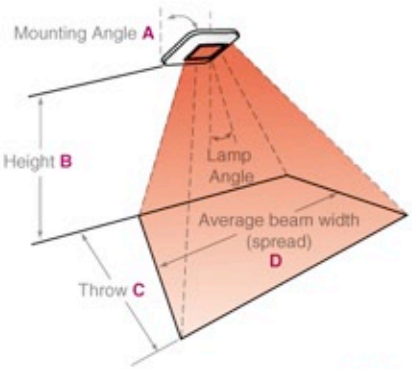
Correct positioning



All heaters must always be mounted on a secure surface. Do not ever attempt to touch the heater when it is on as injury may occur.

Heater coverage

Mounting angle is the angle between the wall and the rear panel of the heater.



QXD spread and throw chart

Model	QXD1500		QXD3000		QXD4500	
Height B	Throw C	Spread D	Throw C	Spread D	Throw C	Spread D
2.1m	2.5m	2.5m				
2.5m	3.4m	3.7m	4.2m	4.0m		
3.0m	4.5m	5.2m	5.0m	4.5m	5.0m	5.0m
3.5m			5.7m	5.7m	6.0m	6.1m
4.0m			6.4m	6.2m	7.1m	6.9m
4.5m					8.2m	7.8m

A All figures are for 45° mounting angle (for 30° mounting angle increase throw by 1.75 x).

QXD Heat Intensity

- High intensity (120 W/m²)
- Medium intensity (95 W/m²)
- Low intensity (70 W/m²)

CXD spread and throw chart

Model	CXD2000H		CXD2000V	
Height B	Throw C	Spread D	Throw C	Spread D
1.8m	1.8m	1.3m	1.6m	1.1m
2.0m	2.0m	1.4m	1.8m	1.3m
2.3m	2.2m	1.6m	1.9m	1.4m
2.5m	2.4m	1.8m	2.1m	1.6m
2.7m	2.5m	1.9m	2.3m	1.7m

A All figures are for 45° mounting angles.

CXD Heat Intensity

- High intensity (80 W/m²)
- Medium intensity (65 W/m²)
- Low intensity (50 W/m²)

Key

Inactive (churches/dressing rooms) | Light work (workshops/desk working/despatch areas) | Heavy work (factories/loading bays/open air construction)

Note: All the above applications are dependent on the area heated and the heat-loss within the building structure. Please contact our heating design service with your requirements.

The WFC and WFE ranges

Model WFE3TNS

Features

- Powerful 3Kw output
- Variable thermostat, range 5°C to 35°C
- Manual mode selection (WFC models)
- Low fan/High fan/1kW, 2kW, 3kW outputs
- Fine mesh dust filter fitted as standard
- Electronic thermostat control (WFE models)
- Dual mode electronic programmer (WFE models)
  - Modes: On/off, Auto 7 day, Auto 5 + 2 day
  - 4 time periods per block
  - Manual advance
  - Choice of silver or black finish

With a powerful 3kW maximum output, the WF range provides rapid response heating with accurate temperature control, making the heaters ideal for commercial use in areas such as shops, offices, restaurants and waiting areas.

Both WFC and WFE models are thermostatically controlled and draw room temperature air through the front panel and blow warm air out of the concealed grille underneath. This sets up a very effective circulation of air in the room for rapid warm-up and to maintain stable comfort conditions.

WFE electronic models provide the additional benefit of fully automatic control over the heat output level.

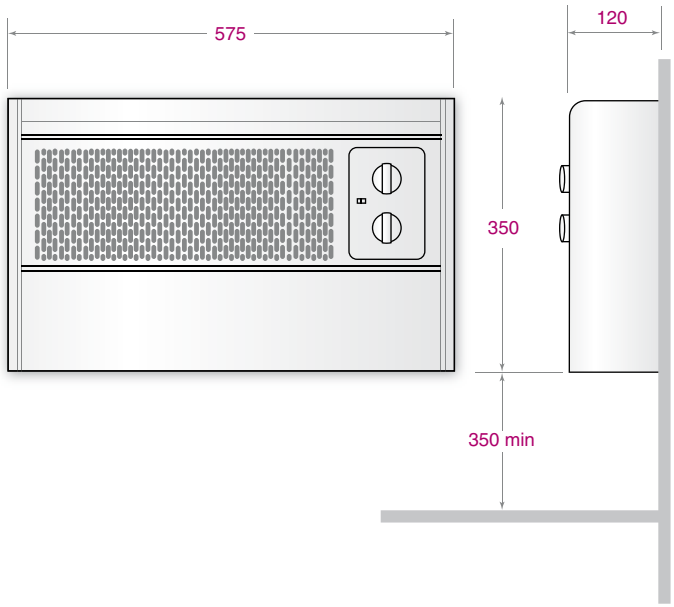
Both models are available in a choice of modern or traditional finishes, making them suitable for installation in a variety of environments.

Model WFC3NB

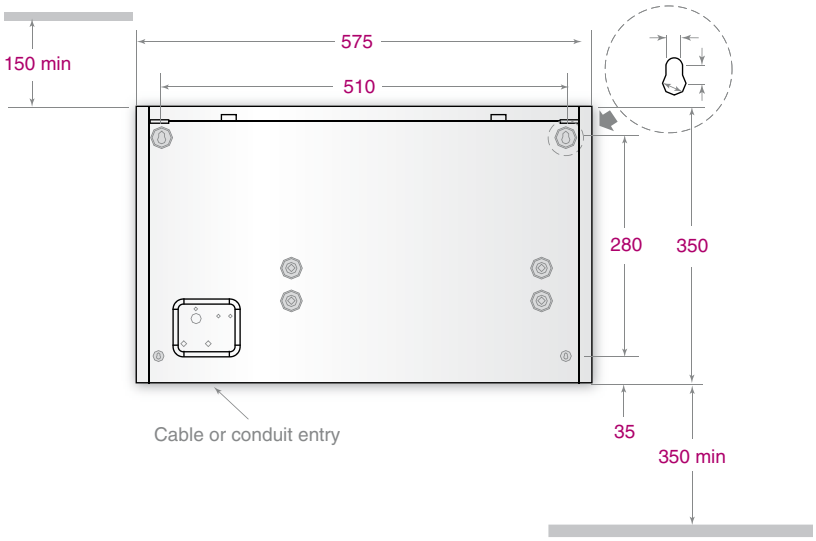
scan for more info
dimplex.co.uk/wf

Technical information

General dimensions (mm)



Fixing dimensions (mm)



Model	Loading	Height	Width	Depth	Minimum distance Above	Minimum distance Below	Weight
WFC3NB WFC3NS	3.0kW	350mm	575mm	120mm	150mm	350mm	6.6kg
WFE3TNB WFE3TNS	3.0kW	350mm	575mm	120mm	150mm	350mm	6.6kg

Colour/Finish

WFC3NB/WFE3TNB: black stove enamelled body with cherry effect end panels.

WFC3NS/WFE3TNS: satin silver enamelled body with black painted end panels.

Construction

- Pressed steel front panel and base
- Keyhole mounting slots on rear of product
- Twin helically wound fully strung open coil elements (2kW + 1kW)
- Low noise tangential fan
- Auto reset over temperature cut-out
- Supplied without cable

The VFMi range

Features

- Loadings from 3.4 to 6.9kW
- Highly accurate thermostat for close control over retained heat
- Controls conveniently positioned on the top right-hand side of the heater
- Manually adjustable input charge control
- Frost protection setting
- Optional direct acting elements available
- Accessory feet available for use on uneven surfaces or thick carpets (only applicable when heater is fixed to wall)
- Ideal for offices, hotels, community rooms, halls and larger homes

The VFMi range of fan storage heaters blends all the benefits of using low tariff electricity with a highly insulated heater to give maximum controllability over heat delivered.

These qualities make this range of heaters the perfect solution for commercial applications where a reliable, energy efficient system is needed. The range has the dual benefits of dependable thermostatic control and a quiet fan heat distribution for fast response. In addition, it is possible to link the fan circuit to a separate timer for even greater levels of controllability.

Controls

Charge controller

Type: Hydraulic, manually adjustable from zero charge to fully charged condition.

Thermal safety device

Type: Bi-metal – automatic reset.

Output control

Type: Integral room temperature sensing hydraulic thermostat fitted at installation stage. Accurate to ±1°C. Temperature range approximately 5°C to 30°C.

On/off switch for fan.

On/off switch with neon for direct acting heating element (option).

Model	VFM24i	VFM32i	VFM40i	VFM48i
Performance				
Input rating	3.4kW	4.6kW	5.7kW	6.9kW
Charge acceptance 7 hour	24kWh	32kWh	40kWh	48kWh
Heating elements/fans				
No. of elements/rating (off-peak supply)	3 x 1130W	3 x 1530W	3 x 1900W	3 x 2300W
Fan rating (on-peak supply)	15W	15W	25W	25W
Dimensions				
Height	672mm	672mm	672mm	672mm
Width	776mm	926mm	1076mm	1226mm
Depth (inc. 35mm wall spacer)	285mm	285mm	285mm	285mm
Weight (installed)	138kg	177kg	216kg	255kg
No. of storage bricks	18	24	30	36
Brick packs	6	8	10	12
Optional direct acting element				
zHi 070E input rating 0.7kW	✓	✓	✓	✓
zHi 110E input rating 1.1kW	N/A	✓	✓	✓
zHi 150E input rating 1.5kW	N/A	N/A	✓	✓
zHi 200E input rating 2.0kW	N/A	N/A	✓	✓

✓ = installation possible

scan for more info
dimplex.co.uk/vfm

VFMi Technical information

Construction

Galvanised sheet steel base, mounted on pressed steel feet. Side panels, front panel/air outlet grille assembly and inner skin removable for brick loading.

- Storage core
  Material: High density bonded magnesite bricks
- Heating elements
  Type: Incoloy sheathed, 3 elements per heater
- Thermal insulation
  Front and rear panels – microporous silica
  Top – microporous silica
  Base and sides – vermiculite
- Supply connection
  Located at right hand side to rear of heater – accessible by removal of side panel assembly
  240v 1 phase or 415v 3 phase
  Note: Heat resistant cable required for connection to heater
- Installation
  A secure wall fixing is required for all heaters with suitable connection to the fixed wiring of the premises

IP rating

N/A

Colour/Finish

Front panel, top panel, side panels – RAL9016 – traffic white

Grille – birch grey

Packing

- Case assembly
  VFM24i – approx. weight 44kg
  VFM32i – approx. weight 51kg
  VFM40i – approx. weight 57kg
  VFM48i – approx. weight 63kg
- Storage bricks
  Packed separately in packs of 3 (see table on facing page for weight of product with bricks)
  Pack Part No. 007781
  approx. weight 16.7kg

Accessories

Feet: part no. SHF25i

Direct acting elements for retro-fit or on heater installation (see table).

The HAW range

Air warmers are extremely robust heaters designed for a wide variety of industrial applications. Often found in industrial locations requiring a long lasting, heavy duty heater that can be operated via separate controls.

Model	Loading	Voltage	Width	Depth	Height	Fixing width	Fixing depth	Weight
HAW 1000N	1.0kW	240V	470mm	207mm	115mm	449mm	179mm	14kg

Features

- Strong, robust and very reliable
- Large number of fins give large heating surface
- Now comes complete with guard

Technical specifications

Electrical connections

20mm cable entry as standard with cable gland fitted.

Construction

Cast iron body
Black stove enamelled.

Guard

A wall mounted guard is now supplied as standard and it is recommended this is used on all installations.

scan for more info
dimplex.co.uk/haw

The Electricaire range

Features

- Due to its unique shape, Electricaire holds up to 85% of its retained heat into a second day, making it highly economical
- Cost effective heating when you want it
- Boost heating feature for additional heat when needed
- Two speed fan for rapid heat-up
- Can be used with external thermostats and time clocks for further control
- Can be used standalone or with suitable ducting
- Pre-wired to accommodate single or three phase connection
- Flexible installation requirements for minimal room intrusion

Electricaire is a highly controllable heating system particularly suited to larger applications such as schools, libraries, museums and business premises.

Due to its design, the Dimplex Electricaire range offers the most controllable yet cost effective use of the stored heat principle.

By allowing the user unrivalled ability to retain heat for use when required, the user can choose to save heat for when it is needed, or to boost heat using the twin speed fan and day energy feature.

In addition, the Electricaire range offers further control through the use of an external thermostat to regulate fan operation, and an external time clock particularly suited for use in commercial applications to regulate product operation during office hours.

Like other electric heating products, Electricaire allows flexible system design, siting and cost-effective installation, since no expensive flues or fuel storage facilities are required.

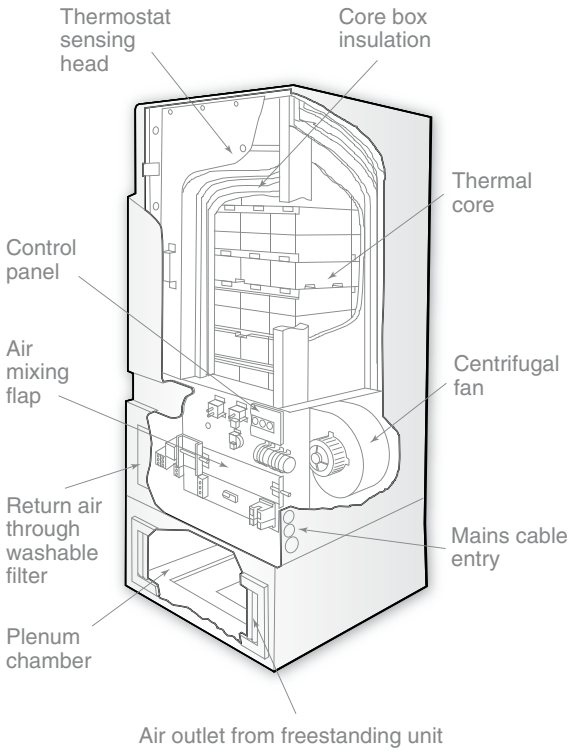
And due to its small space requirements, Electricaire offers substantial heating capability for minimal room intrusion, coupled with long working life and minimal maintenance for a cost effective heating solution.

scan for more info
dimplex.co.uk/aire

Technical information

Model	R7*	R8*	R10	R12	R15
Rating	4x1.643kW	5x1.643kW	6x1.643kW	7x1.643kW	9x1.643kW
Active storage capacity	47kWh	55kWh	73kWh	84kWh	104kWh
Case emission	700W	700W	750W	850W	950W
Core weight	385kg	385kg	385kg	457kg	611kg
Assembled weight	482kg	482kg	482kg	600kg	754kg
Dimensions (including/excluding plenum chamber)					
Height	1603mm/ 1300mm	1603mm/ 1300mm	1603mm/ 1300mm	1753mm/ 1450mm	2053mm/ 1750mm
Width	615mm	615mm	615mm	615mm	615mm
Depth	635mm	635mm	635mm	635mm	635mm
Fan performance (m^3/h)					
Normal	625	625	625	710	872
Boost	777	777	777	896	1090
Back pressure (M Bar)	0.15	0.15	0.15	0.15	0.25
Day boost facility element rating	2x1.643kW	3x1.643kW	4x1.643kW	5x1.643kW	7x1.643kW

*Supplied as Model R10. R7 and R8 achieved by downrating on site.
We recommend this unit is professionally installed by one of our Electricaire installers.
Please see our website for more information.



Air filter

A washable polyester filter is located in the detachable filter frame at the front of the unit. All live and moving parts are completely screened by a fixed mesh when the filter is removed.

Plenum chamber kit (PLEN/12)

For all new installations a plenum chamber kit will be required at extra cost. Complete with 3 air register grilles, this additional component measures 625mm x 600mm (including flanges) with a height of 303mm.

Ducting

In addition to standalone use, Electricaire can also be used with ducting dependent on installation.

Controllability

- Variable input control
- Two fan speeds – normal or boost
- Day energy switch (Economy 7)
- External time clock and thermostat options

Heating element

Kanthal D iron/aluminium alloy sheathed in quartz tubes.

Thermal insulation

Basic insulation – microporous silica and mineral wool.

Air passages and base – moulded Vermiculite.

Supply

Can be connected to 240v single phase or 415v three phase supply, on standard off-peak or Economy 7 (white meter) tariffs.

Every unit is therefore capable of being wired on site to cover the following configurations:

- Single phase Economy 7 (white meter)
- Single phase standard off-peak
- Three phase Economy 7 (white meter)
- Three phase standard off-peak

Cabinet

0.8mm zinc coated mild steel finish with polyester/epoxy powder coated paint.

EC-Eau unvented solar cylinder range

Energy saving feature

- 60mm of CFC/HCFC free injected foam insulation
  - – Exceeds ‘CHESS’ best practice standard for low heat loss
  - – Completely void free, including insulation around immersions and thermostats

User features

- Mains pressure hot water
- Fast filling baths
- Powerful invigorating showers
- Simultaneous supply of water to all bathrooms and domestic appliances
- No cold water storage tank required, freeing valuable living space
- Long life, low maintenance hot water supply
- Sustainable materials – high percentage by volume recycled (excluding insulation)
- Backed by a big name in domestic heating

Installer features

- Duplex stainless steel inner cylinder with 25 year guarantee
- Hard wearing, flexible, damage resistant outer cladding produced from 100% recycled material (HIPS/ABS)
- No sacrificial anode
- CFC/HCFC free foam injected insulation
- Lightweight for easy handling to site
- Surface mounted thermostats and sensors for easy installation and maintenance/replacement
- All connections accessible from the front
- Supplied complete with inlet safety group and external expansion vessel

Dimplex EC-Eau solar cylinders provide highly efficient hot water storage for a variety of solar thermal applications and are designed specifically to work seamlessly with Dimplex solar thermal systems. Featuring a purpose designed solar coil to maximise heat transfer of the generated solar energy to the stored water, EC-Eau solar cylinders are available in choice of single or dual coil options.

Indirect

Direct

scan for more info
dimplex.co.uk/ecs

Please see our website for details of our heat pump cylinders.

Technical information

Indirect solar cylinders

Dimensions

Model	Height (mm)	Diameter (mm)	T&P valve (mm)	Solar coil return (mm)	Solar coil flow (mm)	Aux coil return (mm)	Aux coil flow (mm)	Immersion (mm)	Thermostat 1 (mm)	Thermostat 2 (mm)	Weight empty (kg)	Weight packaged (kg)
ECSI175ST-580	1280	580	1050	190	525	740	995	580	330	847	37	49
ECSI210ST-580	1505	580	1275	190	525	837	1052	615	330	940	40	53
ECSI250ST-580	1780	580	1550	190	525	905	1120	640	330	1012	47	60
ECSI300ST-580	2080	580	1850	190	525	992	1207	640	330	1095	52	56

Performance

Model	Capacity (litres)	Auxiliary heated volume (litres)	Dedicated solar volume (litres)	Aux coil size (kW)	Aux coil surface area (m2)	Solar coil size (kW)	Solar coil surface area (m2)	Number of immersions	Aux reheat (mins)	Solar reheat (mins)	Heat loss in 24 hrs (kW/24hr)
ECSI175ST-580	175	80(i)	95(ii)	20(i)	0.8	23(i)	1.1	1	12(i)	23(i)	1.12
ECSI210ST-580	210	100(i)	110(ii)	20(i)	0.8	22(i)	1.1	1	15(i)	26(i)	1.41
ECSI250ST-580	250	140(i)	110(ii)	17(i)	0.8	19(i)	1.1	1	24(i)	35(i)	1.51
ECSI300ST-580	300	175(i)	125(ii)	18(i)	0.8	20(i)	1.1	1	31(i)	42(i)	1.96

Direct solar cylinders

Dimensions

Model	Height (mm)	Diameter (mm)	T&P valve (mm)	Solar coil return (mm)	Solar coil flow (mm)	Immersion 1 (mm)	Immersion 2 (mm)	Thermostat (mm)	Weight empty (kg)	Weight packaged (kg)
ECSD175ST-580	1280	580	1050	190	525	630	895	330	34	45
ECSD210ST-580	1505	580	1275	190	525	724	1117	330	38	49
ECSD250ST-580	1780	580	1550	190	525	790	1350	330	44	57
ECSD300ST-580	2080	580	1850	190	525	880	1620	330	50	54

Performance

Model	Capacity (litres)	Auxiliary heated volume (litres)	Dedicated solar volume (litres)	Solar coil size (kW)	Solar coil surface area (m2)	Number of immersions	Aux reheat (mins)	Solar reheat (mins)	Heat loss in 24 hrs (kW/24hr)
ECSD175ST-580	175	100(i)	75(ii)	24(i)	1.1	2	101(i)	21(i)	1.12
ECSD210ST-580	210	115(i)	95(ii)	22(i)	1.1	2	128(i)	27(i)	1.41
ECSD250ST-580	250	151(i)	100(ii)	22(i)	1.1	2	166(i)	33(i)	1.51
ECSD300ST-580	300	194(i)	105(ii)	21(i)	1.1	2	208(i)	43(i)	1.96

All measurements are taken from the bottom of the cylinder to the centre line on the component.

(i) Determined in accordance with EN12897-2006.
(ii) Determined in accordance with KIWA document for unvented hot water storage cylinders to the requirements of the UK building regulations, Annex D.

Materials
- Inner cylinder – Duplex stainless steel
- Outer casing – black HIPS/ABS (from recycled materials)
- Inlet/outlet – stainless steel
- Coils – corrugated stainless steel
- Insulation – 60mm PU foam (GWP=1, ODP = 0)

Max operating conditions
- Potable water temperature – 70°C
- Heating water temperature – 90°C
- Operating pressure – 3 bar

Cold water supply
- Minimum dynamic pressure – 1.5 bar
- Maximum pressure – 12 bar
- Minimum flow rate – 15L/min

Connections
- Cold water inlet – 22mm stainless steel
- Hot water outlet – 22mm stainless steel
- Coil flow/return – 22mm/28mm stainless steel
- Sensor – surface mounted
- T&P valve – ½" F BSP
- Immersion heater – 1¾" F BSP

Immersion heaters
- Indirect – 1
- Direct – 2

Thermostatic control
Indirect
- 2 x integrated surface mounted twin thermostat
- 1 x integrated immersion heater thermostat and thermal cut out

Direct
- 2 x integrated immersion heater thermostats and thermal cut out
- 1 x integrated surface mounted twin thermostat

Safety components
- Pressure reducing valve and strainer – 3 bar
- Expansion relief valve – 6 bar
- T&P valve – 7 bar/90°C
- Factory pressure tests – 12 bar
- Expansion – external

Approvals
- KIWA

Guarantee
- Inner cylinder – 25 years
- Immersion heaters – 2 years excluding the effects of limescale
- Other components* – 2 years

*Excluding expansion vessel membrane.

Low carbon solutions overview

The course is set for a route towards low energy buildings in the UK via progressively tightening building standards and targets for all new housing to be zero carbon by 2016 and commercial buildings by 2020. Government policy, legislation and incentives are also clearly emphasising the need for improvements in the energy efficiency and sustainability of the UK's existing housing stock.

Meeting these challenging standards will inevitably require the use of renewable technology and increasingly, particularly in the new build sector, require combinations of technologies to be applied to achieve the required carbon saving standards.

Renewable technologies, strategically based around low carbon electricity, will come to the fore, with longer term UK energy policy based on a decarbonised electricity grid in place of unsustainable and insecure fossil fuels, creating a greater dependency on electricity as the primary energy source.

Whether domestic or commercial, our range of renewable solutions, designed specifically to complement each other, perfectly matches the future needs of low/zero carbon buildings.

1 Ground source heat pump

Dimplex has over 30 years' experience in heat pump manufacturing and has developed a ground source range that covers small domestic systems from 4kW to commercial systems up to 130kW, able to be installed in multiples to meet the heating needs of buildings of all kinds.

2 Air source heat pump

Air source heat pumps are increasing in popularity in the UK and with our vast experience in manufacturing highly efficient units for cold central European climates, the Dimplex range spans solutions from compact domestic units through to high efficiency units with outputs of up to 60kW, suitable for commercial premises.

3 Solar thermal hot water heating

An ideal complement to a heat pump, a solar thermal system can provide up to 60% of a property's hot water demand, helping to reduce energy costs and combat fuel poverty. Supplied as an easy to specify complete package, including carefully matched unvented hot water cylinders (4), and a choice of flat plate or evacuated tube collectors with a range of roof mounting options, the system is easy to fit either as part of the build or a refurbishment programme.

4 Energy efficient unvented hot water storage

Dimplex has produced a range of unvented hot water cylinders to accommodate renewable energy systems, with models designed specifically to operate with either solar thermal systems or heat pumps or both.

5 Energy efficient space heating

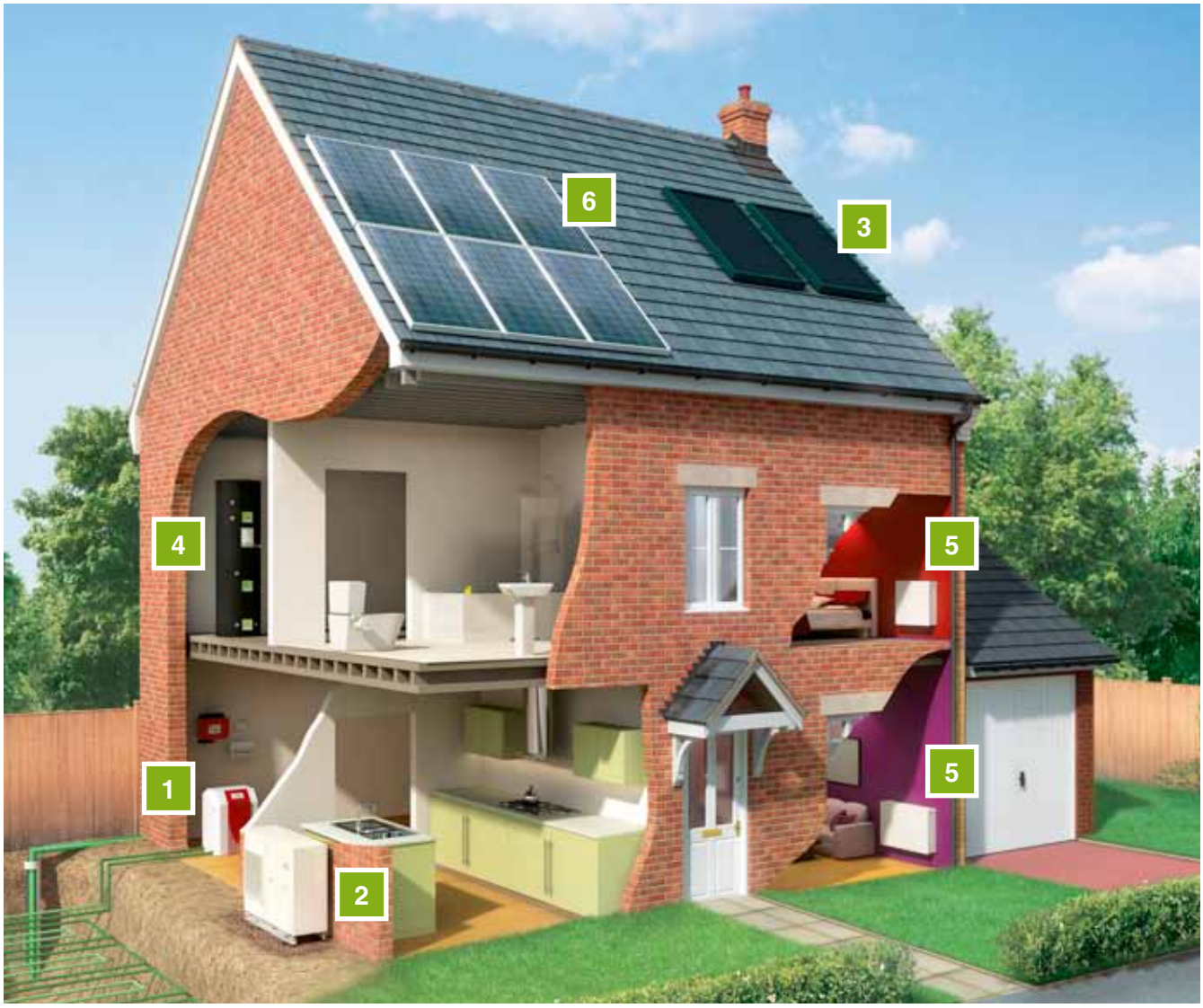
Dimplex SmartRad sets new standards for the way we think about space heating. Fast and responsive with accurate room by room control, SmartRad is attractively styled and designed to work with heat pumps.

6 Solar PV systems

Solar PV uses the free energy from the sun to produce electricity which can be used to offset the electrical consumption of appliances, heat pumps and SmartRad radiators for a truly energy efficient, low carbon building solution.

scan for more info
dimplexrenewables.co.uk

Our website has detailed information on all the technologies we offer.
Visit dimplexrenewables.co.uk for more information or to order a brochure.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The DXPV range

Our solar photovoltaic range brings together high efficiency polycrystalline PV modules with an inverter, mounting system and generation meter to create a complete solution for residential and light commercial properties.

Ideal for both new build and retrofit projects, the systems protrude less than 200mm above the roof so are classed as a permitted development in both England and Scotland and as such do not require planning permission in non-conservation areas.

The PV packs use MCS-certificated hardware so are eligible for the Government Feed in Tariff incentive when properly installed by a MCS accredited installer. The PV module also has an impressive 12 year warranty.

At a glance

- Choose from pre-configured kits or individual system components – whatever suits your individual project
- Produces renewable electricity directly from daylight
- Can provide around 50% of a typical domestic household's annual electricity needs
- Significantly reduces energy costs and building CO_2 emissions
- Future proofs against expected energy price increases
- Meets planning requirements for renewable energy
- Feed In Tariff provides guaranteed income for every kWh produced
- Custom system design service for larger systems
- Accessories including energy generation displays available
- MCS certified – eligible for Feed In Tariffs

Product features

- Uses an MCS-certificated Dimplex Renewables DXPVM240P6-30 module with output of 240W
- High performance photovoltaic module made of polycrystalline silicon cells with a module efficiency of 14.75%
- Excellent reliability:
  - – Guaranteed output tolerance within – 0%/+3%
  - – Product warranty of 12 years on PV module
  - – 25 year performance guarantee:
    - · 10 years: 90% of rated peak output
    - · 15 years: 85% of rated peak output
    - · 25 years: 80% of rated peak output
- Easy installation with all the parts required included within the kit
- Inverter conforms with G83 grid connect standard
- Suitable for MCS-certificated installations
- MCS-compliant owner's manual included

scan for more info
dimplex.co.uk/dxpv

Please visit dimplexrenewables.co.uk for detailed product information or to order a copy of our comprehensive brochure.

Complete system packages

Dimplex solar PV is supplied in kits containing all the components required to create a complete solution for residential and light commercial properties.

For non standard configurations or systems larger than 3.84kWp, Dimplex offer a design service to specify systems to exactly meet requirements. Contact Dimplex Renewables for more details.

Portrait kits

Product code	PV array output (kWp)	Surface area (m²)	Number of modules	Rows	Column
DXPV192/240/2/4xx	1.92	13.44	8	2	4
DXPV216/240/3/3xx	2.16	15.06	9	3	3
DXPV240/240/2/5xx	2.40	16.8	10	2	5
DXPV288/240/2/6xx	2.88	20.16	12	2	6
DXPV384/240/2/8xx	3.84	26.88	16	2	8

Landscape Kits

Product code	PV array output (kWp)	Surface area (m²)	Number of modules	Rows	Column
DXPV192/240/2/4Lxx	1.92	13.44	8	2	4
DXPV216/240/3/3Lxx	2.16	15.06	9	3	3
DXPV240/240/2/5Lxx	2.40	16.8	10	2	5
DXPV288/240/2/6Lxx	2.88	20.16	12	2	6
DXPV384/240/2/8Lxx	3.84	26.88	16	2	8

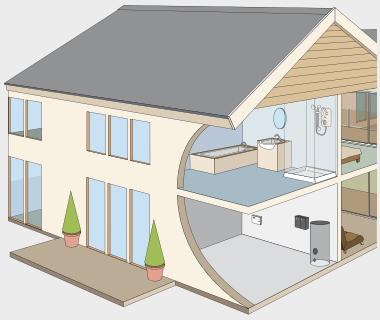
Where “xx” represents roof type options as follows:
PT—Plain Tile, S—Slate Tile, RT— Short/Rosemary Tile

Kit contents
MCS certificated polycrystalline photovoltaic panels
G83 approved inverter
Generation meter
Roof mounting system including all rails, clamps, connectors and roof anchors, options for tile or slate roofs
2 x 10m connecting solar cables with MC4 interconnections
AC/DC isolators
Installation manual

Inverter	G83 approved
Roof Mount	Aluminium rail kits
Meter	Elster A100 (Ofgem approved)
Isolator	DC and AC isolators
Documentation	Owner’s manual

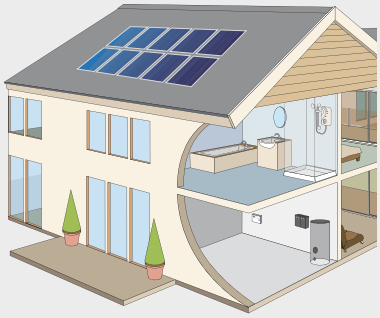
Optional Extras
Installation and commissioning training
Project design and commissioning services

What Clean Energy Cashback means



Domestic property without Solar PV

Income from Solar PV	£0/yr
Income from exported elec	£0/yr
Annual elec bill	£418/yr
Total elec cost	**£418/yr**



Domestic property with 10 panel/ 2.4kWp PV system

Income from Solar PV	£352/yr
Income from exported elec	£50/yr
Annual elec bill	£139/yr*
Total Solar PV benefit £352 + £50 + £279 =	**£680/yr**

Long term benefit:	
Installation cost	£5,000
Total system income over 20 years:	£13,611
Total profit over 20 years:	£8,611

*Note: this will vary depending on the proportion of PV energy consumed. The calculations shown above are based on figures for a south facing roof at 35° with no shading in a location that gives 917W/m2 (Southampton) and the latest standard FiT rates as at 1st August 2012.

Optiflame® range overview

With a Dimplex electric fire you can enjoy the comfort and cosiness of a gas fire – but at the flick of a switch. Installation is easy as there are none of the cost and siting constraints associated with flue and gas connection, plus there is no requirement for annual servicing. Dimplex electric fires also come complete with a fitted plug, and many don't require a fireplace – you simply plug-in and go.*

Optiflame®

Optiflame is our original and the world's best selling electric flame effect, and features on over 40 fires in the Dimplex range.

To see our full range of electric fires visit dimplex.co.uk/fires

Inset fires

In a range of traditional and contemporary styles, Dimplex's inset fires will fit virtually all standard fireplace opening or a suitable fire surround. Additionally many models can also be used freestanding with the spacer kit provided, allowing them to fit flat to the wall. With a choice of features and finishes, there's a Dimplex inset to suit any living room.

Electric stoves

The impressively authentic range of Dimplex electric stoves, offers a range of modern and traditional styled designs that can be used almost anywhere.

Wall mounted fires

Dimplex has an extensive range of wall mounted fires with heat outputs ranging from 1kW to 2kW. These high quality electric fires are the perfect, modern addition to any living space and are particularly ideal where floor space is limited.

Freestanding fires

This range of traditional and contemporary styled electric fires fits straight from the box, flat to the wall, for a no-fuss, hassle-free installation.

*Wall mounted fires require some installation. Opti-myst requires water to be added.

scan for more info
dimplex.co.uk/optiflame

Opti-myst® range overview

opti-myst®

Opti-myst is a stunning new flame effect from Dimplex. Deceptively real, it will captivate you from the moment you see it. The fully 3-dimensional flame effect uses ultra-fine water mist that is illuminated to create 'flames' and 'smoke', making it the most realistic electric flame effect in the world.

To see our full range of electric fires visit dimplex.co.uk/fires

Inset fires

With modern and traditional styles, the Opti-myst inset fires that are available with a choice of styles and finishes, including brass, antique brass, chrome and black. These fires include 1kW and 2kW heat selection.

Electric stoves

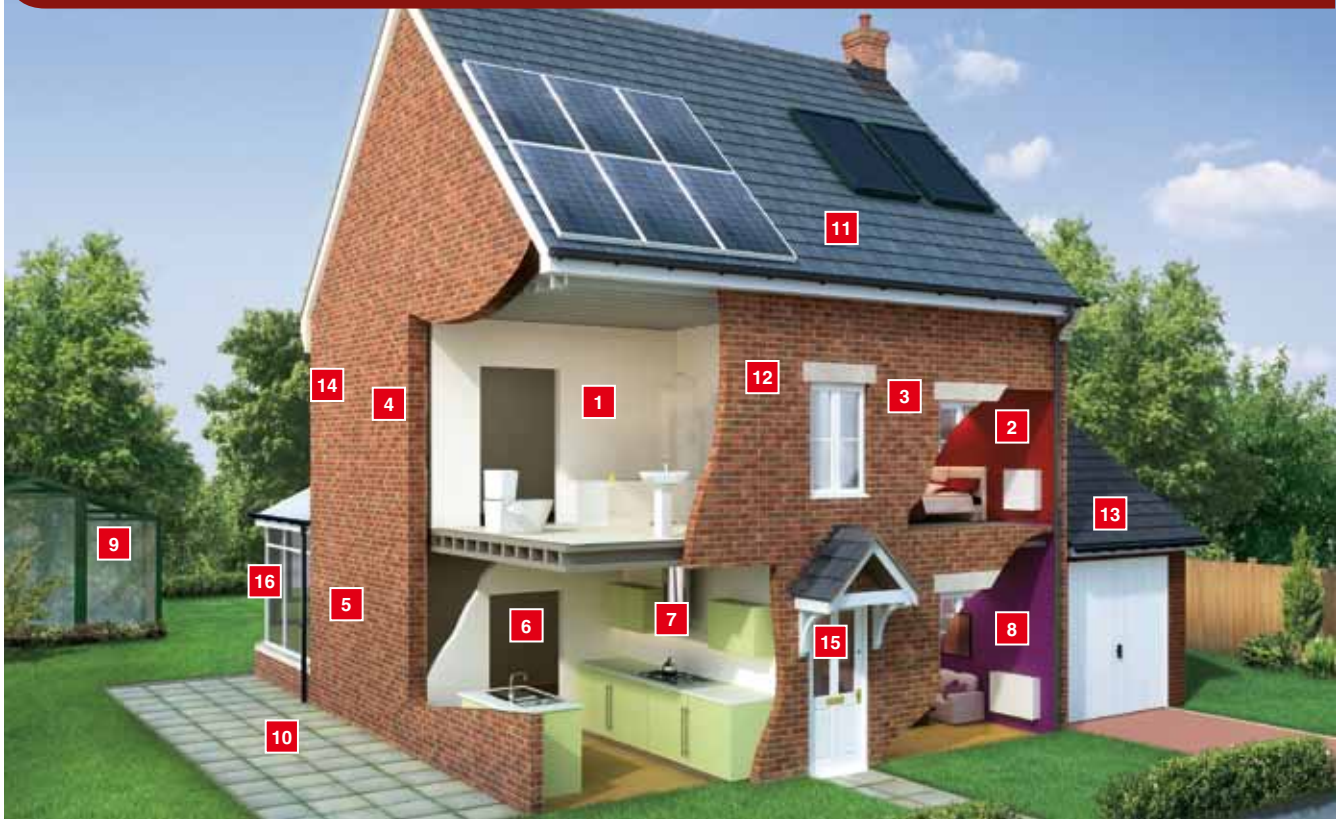
Our range of elegant freestanding stove effect fires can bring warmth and realism to any room. With 1kW and 2kW heat selection, models also include opening doors to view the stunning effect in more detail.

Wall mounted fires

With a choice of stunning wall mounted fires to choose from, these products will bring a touch of luxury to any room.

scan for more info
dimplex.co.uk/opti-myst

Domestic heating selection guide



Dimplex has a heating solution for every room in the house. Whether it's a whole house heating system or a single room, one of the real benefits is that you can choose from a whole range to meet your exact requirements.

This guide gives you a room by room selection, but your final choice will depend on your personal preferences and other factors*. Please also see pages 100/101 for design information. If you need further help or guidance, speak to your supplier.

If you are looking for a renewables solution, don't forget our heat pumps, solar thermal and solar PV. A summary of these products is available in this publication. Or visit dimplexrenewables.co.uk for full details.

1	Bathroom	Pages
	Panel heaters	20-31
	Mini storage heaters	42
	Fan heaters	52-53
	Radiant panel heaters	50
	Towel rails	44-49
	Under-tile heating	54-55

2	Main bedrooms	Pages
	Panel heaters	20-31
	Quantum	12-17
	DuoHeat radiator	36-37

3	Ensuite	Pages
	Panel heaters	20-31
	Fan heaters	52-53
	Radiant panel heaters	50
	Towel rails	44-49
	Under-tile heating	54-55

4	Airing cupboard	Pages
	MPH range	59
	T range	60

5	Utility room	Pages
	Panel heaters	20-31
	Mini storage heater	42
	Fan heaters	52-53
	Radiant panel heaters	50
	Towel rails	44-49
	Under-tile heating	54-55

6	Dining room	Pages
	Quantum	12-17
	DuoHeat radiators	36-37
	Panel heaters	20-31
	Storage heaters	38-39

7	Kitchen	Pages
	Fan heaters	52-53
	Base unit heaters	56-58
	Quantum	12-17
	Towel rails	44-49
	Under-tile heating	54-55

8	Lounge	Pages
	Quantum	12-17
	DuoHeat radiator	36-37
	Panel heaters	20-31
	Storage heaters	38-39

9	Greenhouse	Pages
	MPH range	59
	T range	60

10	Patio	Pages
	OPH range	80
	CXD range	82

11	Attic conversion	Pages
	Panel heaters	20-31
	Convector heaters	40-41
	Oil free heaters/ Oil filled radiators	63-65
	Slimline heaters	66

12	Spare bedroom	Pages
	Panel heaters	20-31
	Quantum	12-17
	Convector heaters	40-41
	Oil free heaters/ Oil filled radiators	63-65
	Slimline heaters	66

13	Workshop	Pages
	Portable fan heaters	62
	Multi-purpose heaters	60
	Quartzray heaters	81

14	Study	Pages
	Quantum	12-17
	DuoHeat radiator	36-37
	Panel heaters	20-31
	Storage heaters	38-39
	Convector heaters	40-41
	Oil free heaters/ Oil filled radiators	63-65
	Slimline heaters	66

15	Hallways/Landings	Pages
	Quantum	12-17
	DuoHeat radiator	36-37
	Panel heaters	20-31
	Storage heaters	38-39

16	Conservatory	Pages
	Panel heaters	20-31
	Under-tile heating	54-55
	Convector heaters	40-41
	Portable fan heaters	62
	Oil free heaters/ Oil filled radiators	63-65
	Slimline heaters	66

*Factors affecting final choice will include heating level, size of room, position of heater in room etc.

Commercial heating selection guide

Application	Product ranges	Example uses**	Page
Retail/offices	Over door heaters	Smaller doorways	70-71
	Air curtains	Larger retail entrances	72-74
	Architectural air curtains	Office entrances, corporate receptions	75
	Compact commercial fan heaters	Small office heaters	79
	Panel heaters	Office heating systems	18-31
	Wall fan convectors	Meeting room heating	84-85
Hospitality *Hotel* *Restaurant* *Leisure*	Outdoor patio heating	Restaurant dining areas	80
	Panel heaters	Hotel rooms	18-31
	Air curtains	Building entrances	72-74
	Quartz radiant and ceramic heaters	Gymnasiums,* sports halls*	82-83
	Towel rails	Hotels rooms, catering kitchens	44-49
	High output storage heaters	Communal area heating	86-87
	Wall fan convectors	Meeting room heating	84-85
Commercial *Churches* *Halls* *Libraries* *Museums*	Over door heaters	Smaller entrances/doors	70-71
	Air curtains	Frequently open entrances/doors	72-74
	Compact commercial fan heaters	Workshops/garages	79
	Wall fan convectors	Waiting rooms	84-85
	High output storage heaters	Communal area heating	86-87
	Quartz radiant and ceramic heaters	Church heating	82-83
	Panel heaters	Room heating systems	18-31
Large Commercial *Airports* *Hospitals*	Air curtains	Supermarket entrances	72-74
	Architectural air curtains	Prestigious receptions, corporate hq's	75
	Wall fan convectors	Waiting rooms	84-85
	Commercial fan heaters	Atriums	78
	High output storage heaters	Communal area heating	86-87
	Quartz radiant and ceramic heaters	Baggage handling, unheated spaces	82-83
Large industrial *Warehousing* *Factories*	Air curtains	Warehouse and factory entrances	72-74
	Commercial fan heaters	Warehouse and factory heating	78
	Quartz radiant and ceramic heaters	Workstation heating	82-83
	Air warmers	Equipment frost protection	87
Other	Convector heaters	Temporary building heating	84-85
	Portable radiators	Movable heating	63-65

*May require the use of additional product guards. **A small selection of possible applications.

Dimplex heaters are ideal for use in many commercial and industrial applications as outlined here.

This table should be taken as a guide only. Individual requirements will depend on a number of factors including size of building, insulation levels, and heating level recommended.

Don't forget heat pumps, solar thermal and solar PV are also ideal for a wide range of commercial installations, from offices through to schools.

Heater sizing table

Dimplex provides a number of options, to meet different property and timescale requirements. If you need to obtain an indication of the heating requirements for estimating or if you need heating for one or two rooms, please use the Selection Guide below. Alternatively use our online calculator at www.dimplex.co.uk/heatdesign For single properties, please complete the form on page 102 and send it with a sketch plan to our heating design department. We aim to provide an accurate assessment within 7 working days. For multiple properties, please send us comprehensive scale drawings (scale 1:50 or 1:100) together with construction details and any other relevant information.

We offer a 14 working day service for this type of assessment. See page 102 for contact details.

How to use this selection guide

The tables below provide heater sizing guidance for traditional electric heating systems, including Quantum, storage heaters and panel heaters. For traditional electric heating the preferred options for living and dining rooms are Quantum or CXLS combination storage heaters.

Knowing the floor area, the wall construction and the number of outside walls, the heater loading in kilowatts is indicated in the appropriate table. These tables do not take into account particularly old properties or those built very recently. If your property fits into one of these classifications, please complete the form on page 102 so that we can provide a more accurate assessment. For sizing guidance for DuoHeat radiators please refer to page 101.

Living or dining room: Quantum
Heater loading in kW. Temperature 21°C

Floor area	Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
m^2	1	2	3	1	2	3	1	2	3
12	1.84	2.16	2.88	1.60	1.92	2.48	1.12	1.28	1.68
16	2.08	2.48	3.20	1.84	2.32	2.88	1.36	1.60	1.92
20	2.64	3.12	3.92	2.32	2.72	3.44	1.68	1.92	2.32
24	2.96	3.44	4.32	2.64	3.12	3.76	2.08	2.32	2.64
28	3.28	3.92	4.80	2.96	3.44	4.24	2.16	2.48	2.96
32	3.52	4.32	5.28	3.28	3.76	4.72	2.40	2.72	3.20

For XLS/XLN heaters multiply loading by 2, for CXLS multiply by 1.25.

Bedrooms: For bedrooms panel heaters are recommended.
Heater loading in kW. Temperature 18°C

Floor area	Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
m^2	1	2	3	1	2	3	1	2	3
8	0.8	1.3	1.7	0.8	1.0	1.4	0.8	0.9	1.4
12	0.9	1.8	2.3	0.9	1.4	2.1	0.8	1.4	1.8
16	1.2	2.1	2.7	1.0	1.7	2.2	0.9	1.6	2.1
20	1.4	2.2	3.1	1.2	2.0	2.6	1.0	1.8	2.4
24	1.5	2.3	3.4	1.2	2.1	2.9	1.0	1.9	2.5

For XLS/XLN heaters multiply loading by 1.5.

Kitchen: Quantum
Heater loading in kW. Temperature 18°C

Floor area	Solid walls no. of outside walls			Cavity walls no. of outside walls			Insulated cavity walls no. of outside walls		
m^2	1	2	3	1	2	3	1	2	3
10	1.28	1.68	2.32	1.12	1.60	1.92			
12	1.52	2.16	2.64	1.36	1.84	2.32			
14	1.68	2.40	2.88	1.60	2.08	2.48			
16	1.92	2.64	3.12	1.68	2.32	2.72			

For all kitchens with cavity wall insulation direct heating is preferred.

For XLS/XLN heaters multiply loading by 2, for CXLS multiply by 1.25.

Commercial heating For greater control and economy of operation Quantum heaters are recommended. Sizing is based on a single storey with a ceiling height of 3m and a minimum of 75mm of roof insulation.

Office: Quantum
Heater loading in kW. Temperature 21°C

Floor area	Solid walls No. of outside walls			Cavity walls No. of outside walls			Insulated cavity walls No. of outside walls		
m^2	1	2	3	1	2	3	1	2	3
15	2.16	2.96	4.08	2.00	2.56	3.52	1.68	2.08	2.64
20	2.64	3.52	4.48	2.40	3.12	4.00	2.08	2.56	3.12
25	2.96	4.08	5.20	2.72	3.68	4.56	2.40	3.04	3.60
30	3.52	4.72	5.84	3.36	4.24	5.20	2.88	3.52	4.16
40	4.80	5.92	7.68	4.40	5.36	6.72	3.92	4.48	5.36
50	5.28	6.80	8.40	4.96	6.24	7.44	4.48	5.28	6.08

For XLS/XLN heaters multiply loading by 2, for CXLS multiply by 1.25.

Online calculator also available at dimplex.co.uk/heatdesign

scan for more info
dimplex.co.uk/heatdesign

Heater sizing table

DuoHeat® radiator sizing – replacement systems

For sizing of DuoHeat radiators to replace existing storage heater systems, replace the existing heater with a similarly sized DuoHeat radiator, as indicated below. Due to the consistency of heat output from DuoHeat radiators, this will provide a significant improvement in room comfort levels throughout the course of the day.

Existing heater	DuoHeat radiator
XL/XLS12N	Duo300n
XL/XLS18N	Duo400n
XL/XLS24N	Duo500n

When considering the correct replacement for a combination storage heater, the frequency with which the convector component is used should be taken into consideration (i.e. if it is used often, the heater may already be undersized). Therefore it is recommended that combination storage heaters are replaced with a larger size of DuoHeat radiator, to ensure there is sufficient capacity within the system to match the capability of the convector heater being replaced. In the case of a 24kW combination storage heater, it is recommended that an additional appliance – either a second DuoHeat radiator, Dimplex panel heater or flame effect fire is added:

Existing heater	DuoHeat radiator
CXLS12N	Duo400n
CXLS18N	Duo500n
CXLS24N	2 x Duo400n, or Duo500n + panel heater or Duo500n + flame effect fire

How to use this selection guide.

The tables on this page are for use with DuoHeat radiators only – for other products please refer to our selection charts on page 100. Unlike the charts on page 100, these tables cover all applications – living room, dining room, kitchen and hallway – and are designed to provide for an internal temperature of 21°C.

DuoHeat radiators are designed to provide primary heating in main living areas, including living rooms, dining rooms, kitchen/diners and hallways/landings. This should be supplemented in other rooms, such as bedrooms and bathrooms, with Dimplex electronic panel heaters.

DuoHeat® radiator sizing – first time installations

The following chart provides guidance on radiator sizing for first time installations in key living areas for existing buildings. Simply select the floor area of your room from the left hand column, and choose the correct number of outside walls from either the cavity or insulated cavity wall columns. These tables do not take into account particularly old properties or those built very recently. If your property fits into one of these classifications, please complete the form on page 102 so that we can provide a more accurate assessment.

Floor Area	Cavity walls			Insulated cavity walls		
m^2	Number of outside walls			Number of outside walls		
	1	2	3	1	2	3
12m²	Duo500n	Duo500n	Duo400n +400n	Duo400n	Duo400n	Duo500n
16m²	Duo500n	Duo400n +400n	Duo 400n +500n	Duo400n	Duo500n	Duo400n +300n
20m²	Duo400n +400n	Duo400n +400n	Duo500n +500n	Duo500n	Duo400n +300n	Duo400n +400n
24m²	Duo400n +400n	Duo400n +500n	Duo400n +400n +400n	Duo400n +300n	Duo400n +400n	Duo400n +400n
28m²	Duo400n +500n	Duo500n +500n	Duo400n +400n +500n	Duo400n +300n	Duo400n +400n	Duo500n +400n
32m²	Duo500n +500n	Duo400n +400n +400n	Duo400n +500n +500n	Duo400n +400n	Duo400n +400n	Duo500n +500n

Note: A ceiling height of 2.4m and a minimum of 75mm of roof insulation is assumed.

scan for more info
dimplex.co.uk/heatdesign

Heating design request form

Millbrook House, Grange Drive, Hedge End, Southampton, SO30 2DF Fax No. 01489 773067

email: heat.design@dimplex.co.uk

Customer name and address (Please note: we are unable to complete the scheme unless full name and address details are included)

Contact: Co. Name:

Address:

Postcode:

Fax No: Tel No: Email:

Site name and address

Type of property (for a flat, please tick 'semi-detached' unless there are other flats on both sides, in which case, tick 'terrace')

☐ House ☐ Bungalow ☐ Flat ☐ Other (please specify) ☐ Detached ☐ Semi-detached ☐ Terraced

Type of construction

Cavity wall	☐ Yes	☐ No	Roof	☐ Pitched	☐ Flat		
With insulation	☐ Yes	☐ No	Insulation	☐ None	☐ 100mm	☐ 150mm	☐ 200mm
Solid walls	☐ Yes	☐ No	Glazing	☐ Single	☐ Double		
Floor	☐ Solid	☐ Timber	Approximate age of property				

Products to be specified

Please list below the product ranges you would like us to base the scheme on. Alternatively leave blank and we will match the right products to your property.

Would you like us to include:

Water heating ☐ Yes ☐ No

Solar hot water ☐ Yes ☐ No

Type/usage of room (i.e. living/bedroom etc.)	Area (m^2)	Floor to ceiling height	External wall length	Window area (m^2)	External door area (m^2)	Internal wall length to unheated areas	Is room above heated?	Roof above?	Open fireplace?

Alphabetical product index

MODEL		PAGE
314CHE	Optima fuel effect fires	68
316CHE	Theme fuel effect fires	68
430RCE/B	Lyndhurst fuel effect fires	68
842	Radiant wall fire	69
842S	Radiant wall fire	69
843S	Radiant wall fire	69
AC3N	Over door heater	70
AC3CN	Recessed over door heater	70
AC3RN	Over door heater	70
AC45N	Over door heater	70
AC6N	Over door heater	70
APL100	Apollo radiant panel bathroom heater	50
ARC10	Architectural air curtain	75
ARC15	Architectural air curtain	75
ARC20	Architectural air curtain	75
ARLWP800TI	Slimline heater	66
B48	Oil filled radiator	65
BFH24BWSR	Base unit heater	56
BFH24BWST	Base unit heater	56
BR150C	Towel radiator	46
BR150W	Towel radiator	46
BR350C	Towel radiator	46
BR400W	Towel radiator	46
BUH19B/W/S	Hydronic base unit heater	58
C412	Oil filled radiator	65
CAB10A	Surface mounted air curtain	72
CAB10AR	Recess mounted air curtain	72
CAB10E	Surface mounted air curtain	72
CAB10ER	Recess mounted air curtain	72
CAB10W	Surface mounted air curtain	72
CAB10WR	Recess mounted air curtain	72
CAB15A	Surface mounted air curtain	72
CAB15AR	Recess mounted air curtain	72
CAB15E	Surface mounted air curtain	72
CAB15ER	Recess mounted air curtain	72
CAB15W	Surface mounted air curtain	72
CAB15WR	Recess mounted air curtain	72
CAB20A	Surface mounted air curtain	72
CAB20AR	Recess mounted air curtain	72
CAB20E	Surface mounted air curtain	72
CAB20ER	Recess mounted air curtain	72
CAB20W	Surface mounted air curtain	72
CAB20WR	Recess mounted air curtain	72
CDE2ECC	Cadiz oil free radiator	63
CDE2Ti	Cadiz oil free radiator	63
CDE3ECC	Cadiz oil free radiator	63
CFH120	Industrial fan heater	76
CFH60	Industrial fan heater	76
CFH90	Industrial fan heater	76
CFP30	Commercial fan heater	78
CFS30	Commercial fan heater	78
CFS60	Commercial fan heater	78
CXD2000H	Radiant heater	82
CXD2000V	Radiant heater	82
CXLS12N	Storage and convector heater	40
CXLS18N	Storage and convector heater	40
CXLS24N	Storage and convector heater	40
D416	Oil filled radiator	65
DAB10A	Surface mounted commercial air curtain	73
DAB10AR	Recess mounted commercial air curtain	73
DAB10E	Surface mounted commercial air curtain	73
DAB10ER	Recess mounted commercial air curtain	73
DAB10W	Surface mounted commercial air curtain	73
DAB10WR	Recess mounted commercial air curtain	73
DAB15A	Surface mounted commercial air curtain	73
DAB15AR	Recess mounted commercial air curtain	73
DAB15E	Surface mounted commercial air curtain	73
DAB15ER	Recess mounted commercial air curtain	73
DAB15W	Surface mounted commercial air curtain	73
DAB15WR	Recess mounted commercial air curtain	73
DAB20A	Surface mounted commercial air curtain	73
DAB20AR	Recess mounted commercial air curtain	73
DAB20E	Surface mounted commercial air curtain	73
DAB20ER	Recess mounted commercial air curtain	73
DAB20W	Surface mounted commercial air curtain	73
DAB20WR	Recess mounted commercial air curtain	73
DTW1M	Under-tile warming system	54
DTW1.5M	Under-tile warming system	54
DTW2M	Under-tile warming system	54
DTW3M	Under-tile warming system	54
DTW4M	Under-tile warming system	54
DTW5M	Under-tile warming system	54
DTW6M	Under-tile warming system	54
Duo300n	DuoHeat radiator	36
Duo400n	DuoHeat radiator	36
Duo500n	DuoHeat radiator	36
DX30Ti	Contrast portable convector heater	61
DXC20	Contrast portable convector heater	61

MODEL		PAGE
DXC20Ti	Contrast portable convector heater	61
DXC30	Contrast portable convector heater	61
DXC30FTi	Contrast portable convector heater	61
DXDAi2	Daisy flat fan heater	62
DXDFB2	Footie flat fan heater	62
DXFF20TSN	Flat fan heater	62
DXFF30TSN	Flat fan heater	62
DXGLO2	GlofanUpright portable fan heater	62
DXLAT75CW	Latitude low level convector heater	61
DXLWP400	Slimline heater	66
DXLWP400TI	Slimline heater	66
DXLWP800	Slimline heater	66
DXSTG25	Studio G upright portable fan heater	62
DXUC2LCD	Upright portable fan heater	62
DXUF20T	Upright portable fan heater	62
DXUF30T	Upright portable fan heater	62
E420	Oil filled radiator	65
ECSd175ST-580	Ec-Eau direct solar cylinder	90
ECSd210ST-580	Ec-Eau direct solar cylinder	90
ECSd250ST-580	Ec-Eau direct solar cylinder	90
ECSd300ST-580	Ec-Eau direct solar cylinder	90
ECSi175ST-580	Ec-Eau indirect solar cylinder	90
ECSi210ST-580	Ec-Eau indirect solar cylinder	90
ECSi250ST-580	Ec-Eau indirect solar cylinder	90
ECSi300ST-580	Ec-Eau indirect solar cylinder	90
EPX1000	Panel heater	26
EPX1250	Panel heater	26
EPX1500	Panel heater	26
EPX2000	Panel heater	26
EPX500	Panel heater	26
EPX750	Panel heater	26
FX20EIPX4	Wall mounted fan heater	52
FX20IPX4	Wall mounted fan heater	52
FX20V	Wall mounted fan heater	52
FX20VE	Wall mounted fan heater	52
FX20VL	Wall mounted fan heater	52
FW600	Frostwatcher heater	59
GFP050B	Girona panel heater	22
GFP050W	Girona panel heater	22
GFP075B	Girona panel heater	22
GFP075W	Girona panel heater	22
GFP100B	Girona panel heater	22
GFP100W	Girona panel heater	22
GFP150B	Girona panel heater	22
GFP150W	Girona panel heater	22
GFP200B	Girona panel heater	22
GFP200W	Girona panel heater	22
HAW 1000N	Air warmer	86
IAB10A	Architectural air curtain	74
IAB10E	Architectural air curtain	74
IAB10W	Architectural air curtain	74
IAB15A	Architectural air curtain	74
IAB15E	Architectural air curtain	74
IAB15W	Architectural air curtain	74
IRX120N	Infra-red heater	66
IRX200N	Infra-red heater	66
IRX50N	Infra-red heater	66
LPP050	Saletto panel heater	24
LPP075	Saletto panel heater	24
LPP100	Saletto panel heater	24
LPP150	Saletto panel heater	24
Lymington	Optiflame coal effect fire	67
MCFI5R/B	Microfire	62
MFP050W	Monterey panel heater	20
MFP075W	Monterey panel heater	20
MFP100W	Monterey panel heater	20
MFP150W	Monterey panel heater	20
MFP200W	Monterey panel heater	20
Mini Mozart	Optiflame suite	67
Mozart	Optiflame suite	67
MPH1000	Coldwatcher multipurpose heater	59
MPH500	Coldwatcher multipurpose heater	59
OFC1500	Oil filled radiator	65
OFC2000	Oil filled radiator	65
OFC2000Ti	Oil filled radiator	65
OFRB7	Enviro-sensitive oil free heater	64
OFRC15c	Enviro-sensitive oil free heater	64
OFRC20c	Enviro-sensitive oil free heater	64
OFRC20Tic	Enviro-sensitive oil free heater	64
OFX1000	Oil filled radiator	65
OFX1000/Ti	Oil filled radiator	65
OFX1500	Oil filled radiator	65
OFX1500/Ti	Oil filled radiator	65
OFX750	Oil filled radiator	65
OFX750/Ti	Oil filled radiator	65
OPH13	Outdoor patio heater	80
OPH20	Outdoor patio heater	80
PFH30	Compact commercial fan heater	79

MODEL		PAGE
PFH30R	Compact commercial fan heater	79
PLX1000	Panel heater	30
PLX1000NC	Panel heater	30
PLX1000TI	Panel heater	30
PLX1250	Panel heater	30
PLX1250NC	Panel heater	30
PLX1250TI	Panel heater	30
PLX1500	Panel heater	30
PLX1500NC	Panel heater	30
PLX1500TI	Panel heater	30
PLX2000	Panel heater	30
PLX2000NC	Panel heater	30
PLX2000TI	Panel heater	30
PLX2000TX	Panel heater	30
PLX3000	Panel heater	30
PLX3000TI	Panel heater	30
PLX3000TX	Panel heater	30
PLX500	Panel heater	30
PLX500NC	Panel heater	30
PLX500TI	Panel heater	30
PLX750	Panel heater	30
PLX750NC	Panel heater	30
PLX750TI	Panel heater	30
QM070	Quantum heater	12
QM100	Quantum heater	12
QM125	Quantum heater	12
QM150	Quantum heater	12
QXD1500	Quartzray heater	81
QXD3000	Quartzray heater	81
QXD4500	Quartzray heater	81
R10	Electricaire warm air heating system	88
R12	Electricaire warm air heating system	88
R15	Electricaire warm air heating system	88
R7	Electricaire warm air heating system	88
R8	Electricaire warm air heating system	88
RF07T	Towel rail control	51
RF24T	Towel rail control	51
RFBT	Towel rail control	51
RFREC	Towel rail control	51
RPX075N	Panel heater	28
RPX100N	Panel heater	28
RPX150N	Panel heater	28
RPX200N	Panel heater	28
RX24Ti	Programmable 24 hour digital timer	32
RX24TiB	Programmable 24 hour digital timer	32
RX9911	Single zone programming cassette	32
RX9912	Single zone programming cassette	32
RX9913	Single zone programming cassette	32
RXMBS4	4 zone wall mounted programmers	32
RXRBTi	Electronic runback timer	32
RXRBTiB	Electronic runback timer	32
RXPW1	Single zone programming cassette	32
RXPW4	4 zone wall mounted programmers	32
RXPWIF	Pilot wire interface	32
S50C	Towel rail	48
S50W	Towel rail	48
S70	Towel rail	48
SCH5	Skirting convector heater	60
T120W	Tubular heater	60
T240W	Tubular heater	60
T360W	Tubular heater	60
T60W	Tubular heater	60
TDTR175C	Towel rail	44
TDTR175W	Towel rail	44
TDTR350C	Towel rail	44
TDTR350W	Towel rail	44
TRC130/W	Towel rail	48
TRC150/W	Towel rail	48
TRC90/W	Towel rail	48
TRS120/W	Towel rail	48
TRS175/W	Towel rail	48
VFM24i	High output fan storage heater	86
VFM32i	High output fan storage heater	86
VFM40i	High output fan storage heater	86
VFM48i	High output fan storage heater	86
WFC3NB	Fan convector heater	84
WFC3NS	Fan convector heater	84
WFE3TNB	Fan convector heater	84
WFE3TNS	Fan convector heater	84
XL12N	Slimline storage heater	38
XL18N	Slimline storage heater	38
XL24N	Slimline storage heater	38
XL6N	Mini storage heater	42
XLS12N	Slimline storage heater	38
XLS18N	Slimline storage heater	38
XLS24N	Slimline storage heater	38
XLS6N	Mini storage heater	42
YEO20	Yeominster fuel effect fire	68

After Sales Service

After sales service if required is absolutely no problem with Dimplex – we have a network of appointed Service Engineers spread throughout the country who are qualified and trained to repair or service any of our appliances. Please visit www.dimplex.co.uk/support for further details.

Bathrooms

Any electrical appliances installed in a bathroom should be fitted by a competent electrician in accordance with the current I.E.E. Regulations.

Portable heaters are NOT suitable for use in a bathroom.

Unless otherwise specified in this brochure, heaters that can be permanently fixed have to be so mounted that any controls cannot be reached by a person using a bath or shower. This restriction does not apply to Dimplex heated towel rails, which do not have controls.

Safety

Dimplex products are designed to comply with EN60335 the British Standard covering the safety requirements of electric heating appliances, and momentary contact with any part of the heater should not cause injury. However, in order to be effective, heaters or towel rails of any type do get hot especially (if applicable) around the air outlet grille. Therefore if aged or infirm persons, or young children, are likely to be left unsupervised in the vicinity of a heater we advise that precautions should be taken.

We recommend that a guard is fitted around the heater, as is normal with many types of heating appliance in similar circumstances, to ensure contact with the heater is avoided and objects cannot be inserted into the product.

(Please see page 43 for details of accessory guards.)

Heating appliances should never be covered or positioned where objects may fall onto them.

Specifications

Dimplex policy is one of continuous improvement; the Company therefore reserves the right to alter specifications without notice. Although every care has been taken in the reproduction of product finishes in this brochure, the colour photographs should be taken only as a guide. The information contained in this brochure is correct at the time of printing. You are advised to consult your dealer before purchasing.

Plugs

All portable appliances are supplied with a fitted plug.

CE Mark

Products carrying the CE mark comply with European safety standards and the European Standard for electro-magnetic compatibility.

Installation Guidance

This brochure is designed to assist you with your choice of Dimplex products and it is not intended as an installation guide.

For safety, products should only be installed by a competent person, in accordance with current regulations and the manufacturers instructions. If you require further advice concerning the installation of our products – especially where the installed dimensions may be critical to your choice and the location of the product – please consult your installer.

Please note that the dimensions contained within this brochure do not in all cases include clearances required around installed products for safe operation.

The Dimplex Range

Dimplex offers the widest range of electric space, water heating and renewable solutions in the UK. In addition to this publication, we have a number of more focused brochures as shown below. These can be ordered via our website.

www.dimplex.co.uk

As well as product information, our website provides a host of useful information including:

- Dealer listings
- Installation/Operating instructions for current and discontinued products
- Information on how to get a repair
- Heating design guides
- Help me choose selectors
- Videos of Opti-myst and Optiflame electric flame effects
- Latest news and events

This information is available to you instantly and at your convenience, and we would encourage you to visit **www.dimplex.co.uk** whenever possible.

Renewables capabilities brochure

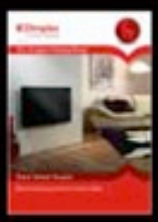
Solar PV brochure

Solar Thermal brochure

Heat pump brochure

EC-Eau Cylinder brochure

SmartRad brochure



Designer Heating brochure

Electric fires brochure

Solid fuel brochure

Commercial brochure

For more information on these products and copies of the brochures please visit

www.dimplex.co.uk

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Tel: 02838 337317

REGISTERED MEMBER ECA

Dimplex

A world of expertise

MIX FSC FSC® C006405

Laminated using bio-degradable film.

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Quantum™ patents pending. All Optiflame fires are protected by patent nos GB2230335, AU621713, USA4965707, IE63651 and NZ232435.

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